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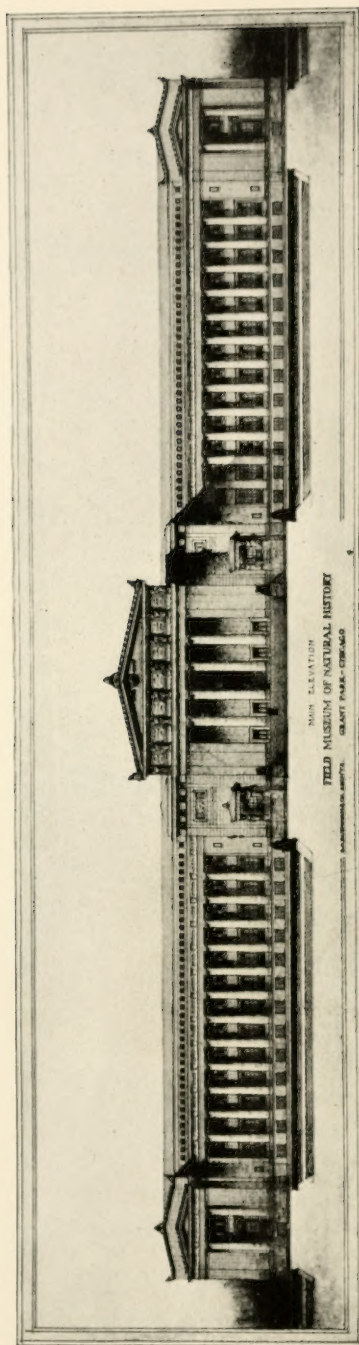








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FIELD MUSEUM OF NATURAL HISTORY

PUBLICATION 128

REPORT SERIES.

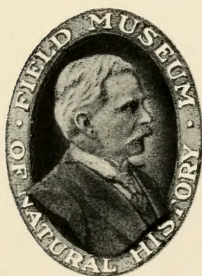
VOL. III, No. 2

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ANNUAL REPORT OF THE  
DIRECTOR

TO THE  
BOARD OF TRUSTEES

FOR THE YEAR 1907



CHICAGO, U. S. A.

January, 1908

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## ANNUAL REPORT OF THE DIRECTOR.

1907.

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To the Trustees of Field Museum of Natural History:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1907.

The Museum has operated one year under its new By-Laws, whose complete revision was demanded by the establishment of its scope and the definition of its endowment. In revising the rules and regulations governing the staff of the Museum, the responsibilities and authority of the various officers and their relations to each other were clearly set forth, and the experiences of the year under these rules, have satisfactorily tested their rationality and effectiveness. The rearrangement of the financial and executive system of the Institution, including the election of an Auditor, has simplified and unified the business of the Museum.

A most important event of the year was a contribution from Mrs. T. B. Blackstone to defray the expenses of an expedition to Tibet, for collecting and study. Dr. Berthold Laufer lately of Columbia University accepted the charge of this expedition and is to devote three years to the work. Further reference to this expedition is made elsewhere.

The controversy as to the site in Grant Park for the new Museum building has made progress in the Courts, but at the date of this report remains undecided. Much attention has been given to the interior plans of the new structure, more especially to the suites of offices, the location and arrangement of the lecture halls, the admission of visitors, checking systems, etc.

**MAINTENANCE.**—The sum of \$161,750 was appropriated by the Trustees for the necessary expenses of maintenance during the fiscal year. The actual amount expended was \$135,512, leaving a balance within the anticipated expenses of the year of \$26,238. In addition to the cost of maintenance, sums were expended, upon authority of the Board of Trustees, for collections, books, expeditions, field work, and exhibition cases, that brought the total to approximately \$180,000. This left a balance within the estimated income of \$16,000. Comparing the expenses of maintenance of this year with those of previous



years, a slight increase is discovered in the compensation of the staff and assistants, and in amounts expended for material for maintenance and repairs to the building. The matter of repairing and calcimining the exterior walls of the Museum has received considerable attention, and a contrivance introduced by Mr. Akeley, Chief Taxidermist, seems to have solved the problem, and the entire North front of the Museum and most of the two Annexes have received an outward application of stucco, greatly improving the appearance of the building. It is the intention to complete the work as soon as weather conditions allow.

**STAFF OF THE MUSEUM.**— One addition was made during the year to the Staff, that being the appointment of Dr. Berthold Laufer as Assistant Curator of Asiatic Ethnology. Dr. Laufer is a graduate of the University of Berlin and has for over ten years been a student of Chinese and Tibetan culture. He has been associated with the Museum für Volkerkunde, of Berlin; conducted two expeditions into Asia for the American Museum of Natural History; one into Siberia and the other into China, both in the interest of the Jesup North Pacific Expedition. More recently Dr. Laufer has been associated with the Department of Chinese, Columbia University.

**LECTURE COURSES.**— Two series of Lectures have been given since the date of the last Annual Report, which were illustrated, and covered an unusually wide range of research and travel. The lectures are given at Fullerton Hall, in the Art Institute, and the attendance of the public indicates a continued interest in this means of public instruction.

Following is the Twenty-sixth Lecture Course, with the subjects and lecturers delivered during the months of March and April, 1907:

March 2.—“The Iron Ores of the Minnesota Ranges.”

Prof. C. W. Hall, University of Minnesota.

March 9.—“Scientific Notes on the Russian Convict Island of Sakhalin.”

Mr. Charles H. Hawes, University of Cambridge, England.

March 16.—“Bird Husbandry.”

Dr. N. Dearborn, Assistant Curator, Division of Ornithology, Field Museum of Natural History.

March 23.—“The Blackfoot Indians.”

Dr. Clark Wissler, Curator of Anthropology, American Museum of Natural History.

- March 30.—“A Superposed Vegetation — The Plant Rusts.”  
Prof. J. C. Arthur, Purdue University, Lafayette,  
Indiana.
- April 6.—“The Monuments of a Prehistoric Race.”  
Mr. Frederick I. Monsen, New York City.
- April 13.—“The Indiana of Nature — Its Evolution.”  
Prof. W. S. Blatchley, State Geologist, Indiana.
- April 20.—“How Some Insects have Solved the Problem of Life.”  
Prof. Herbert Osborn, Ohio State University.
- April 27.—“Physiography and Life in Western Norway.”  
Prof. Mark S. W. Jefferson, State Normal College,  
Ypsilanti, Michigan.

The following is the Twenty-seventh Lecture Course, delivered during the months of October and November, 1907:

- Oct. 5.—“In Quest of the Golden Trout of the Southern High Sierras.”  
Dr. Barton W. Evermann, Ichthyologist of the  
United States Bureau of Fisheries.
- Oct. 12.—“The Landfall of Columbus.”  
Dr. Charles F. Millspaugh, Curator of Botany, Field  
Museum of Natural History.
- Oct. 19.—“Earthquakes viewed in a New Light.”  
Prof. Wm. H. Hobbs, Professor of Geology, Univer-  
sity of Michigan.
- Oct. 26.—“Here and There in Greece.”  
Dr. C. H. Weller, Professor of Greek and Archaeology,  
State University of Iowa.
- Nov. 2.—“A Naturalist in Western Nicaragua.”  
Dr. Seth E. Meek, Assistant Curator of Zoology,  
Field Museum of Natural History.
- Nov. 9.—“The Indians of Alaska.”  
Dr. Geo. B. Gordon, Curator of Anthropology, Free  
Museum of Science and Art, Philadelphia, Pa.
- Nov. 16.—“The R. F. Cummings Philippine Ethnological Expedi-  
tion.”  
Mr. S. C. Simms, Assistant Curator of Ethnology,  
Field Museum of Natural History.

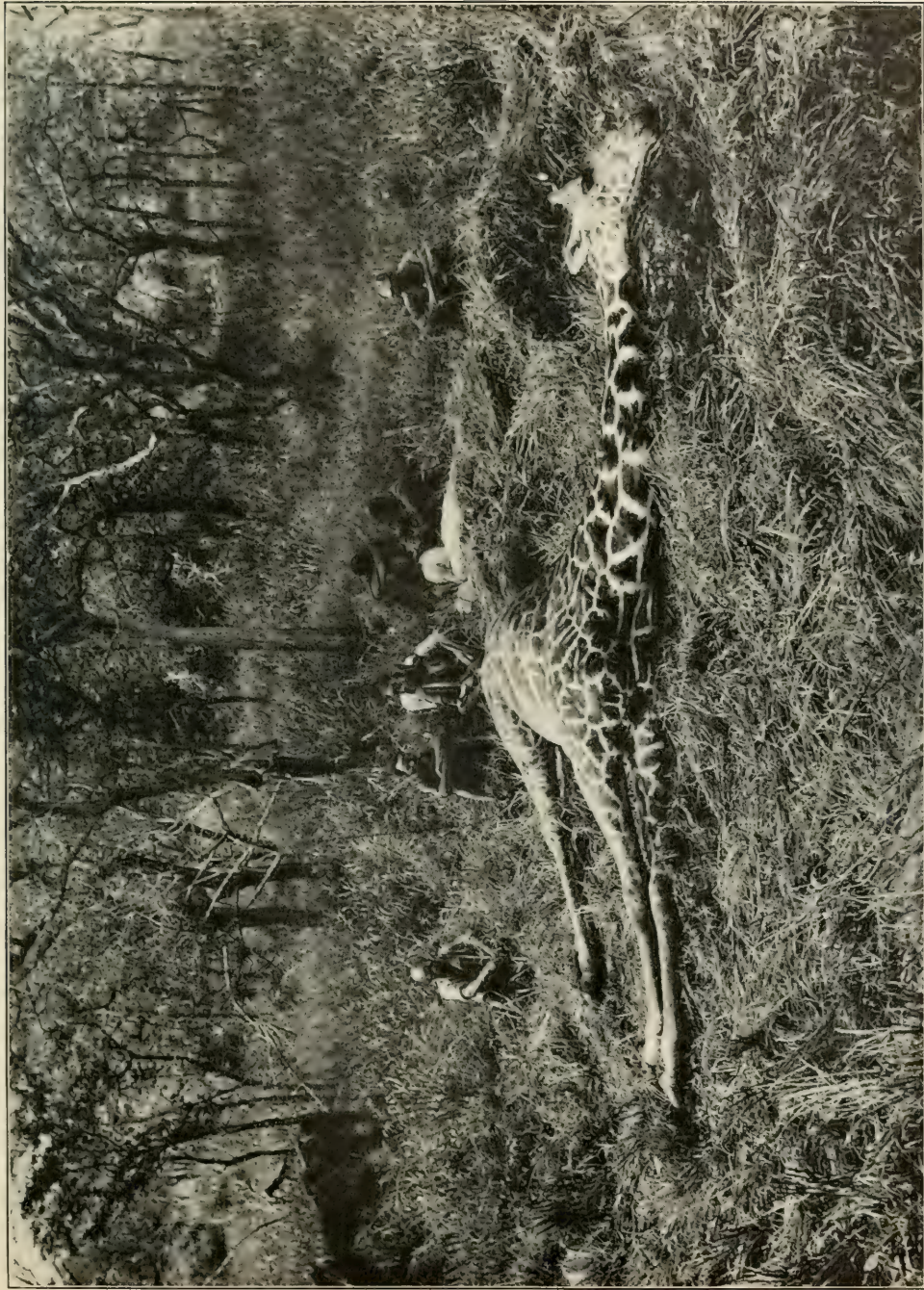
- Nov. 23.—“Zoölogical Collecting in British East Africa — Part I.”  
Mr. C. E. Akeley, Taxidermist-in-Chief, Field Museum  
of Natural History.
- Nov. 30.—“Zoölogical Collecting in British East Africa — Part II.”  
Mr. C. E. Akeley, Taxidermist-in-Chief, Field Museum  
of Natural History.

PUBLICATIONS.—The established series of publications has been continued and the issues have appeared at the customary intervals.

Below will be found the titles issued since December 31, 1906, with the number of pages and illustrations:

- Pub. 115.—Zoological Series, Vol. VIII. “A Catalogue of the Collection of Mammals in the Field Museum of Natural History.” By D. G. Elliot. 694 pp., 92 illustrations (half tones), edition 1,500.
- Pub. 117.—Botanical Series, Vol. II, No. 4. “Studies in the Genus *Citharexylum*.” By J. M. Greenman. 6 pp., edition 1,500.
- Pub. 118.—Botanical Series, Vol. II, No. 5. “Flora of the Sand Keys of Florida.” By C. F. Millspaugh. 53 pp., 19 illustrations (zinc etchings), edition 1,500.
- Pub. 119.—Report Series, Vol. III, No. 1. Annual Report of the Director to the Board of Trustees, October 1905–December 31, 1906. 108 pp., 16 illustrations (half tones), edition 2,500.
- Pub. 120.—Geological Series, Vol. III, No. 5. “Analyses of Iron Meteorites.” By O. C. Farrington. 51 pp., edition 1,500.
- Pub. 121.—Zoological Series, Vol. VII, No. 4. “Synopsis of the Fishes of the Great Lakes of Nicaragua.” By S. E. Meek. 35 pp., 2 illustrations (half tones), edition 1,500.
- Pub. 122.—Geological Series, Vol. III, No. 6. “Meteorite Studies II.” By O. C. Farrington. 19 pp., 15 illustrations (half tones), edition 1,500.
- Pub. 123.—Geological Series, Vol. II, No. 10. “New Crinoids from the Chicago Area.” By A. W. Slocum. 33 pp., 15 illustrations (zinc etchings and half tones), edition 1,500.





GIRAFFE (HEIGHT, 17 FEET). VOI, BRITISH EAST AFRICAN EXPEDITION, 1905-7.



Pub. 124.— Zoological Series, Vol. VII, No. 5. "Notes on Fresh Water Fishes from Mexico and Central America."

By S. E. Meek. 25 pp., edition 1,500.

Pub. 125.— Ornithological Series, Vol. I, No. 3. "Catalogue of a Collection of Birds from Guatemala." By Ned Dearborn. 69 pp., 4 illustrations (half tones), edition 1,500.

Pub. 126.— Botanical Series, Vol. II, No. 6. "New or Noteworthy Spermatophytes from Mexico, Central America and the West Indies." By J. M. Greenman. 41 pp., edition 1,500.

The Museum Exchange List now numbers 1,231 names, of which 594 are in foreign countries and 637 in the United States and its possessions.

The following table shows the number of exchanges with each of the foreign countries:

Argentine Republic . . . . .	11	India . . . . .	15
Australia . . . . .	27	Japan . . . . .	6
Austria . . . . .	29	Liberia . . . . .	2
Belgium . . . . .	15	Mexico . . . . .	17
Borneo . . . . .	1	Malta . . . . .	1
Brazil . . . . .	10	Netherlands . . . . .	13
British Guiana . . . . .	1	New Brunswick . . . . .	1
Canada . . . . .	27	New Zealand . . . . .	6
Central America . . . . .	6	Norway . . . . .	8
Ceylon . . . . .	1	Peru . . . . .	2
Chile . . . . .	2	Portugal . . . . .	5
China . . . . .	1	Roumania . . . . .	1
Cuba . . . . .	4	Russia . . . . .	18
Denmark . . . . .	4	Spain . . . . .	5
East Africa . . . . .	1	Sweden . . . . .	10
Egypt . . . . .	1	Switzerland . . . . .	14
France . . . . .	53	South Africa . . . . .	10
Fiji Islands . . . . .	1	Tasmania . . . . .	2
Germany . . . . .	126	U. S. Colombia . . . . .	2
Great Britain . . . . .	97	Uruguay . . . . .	1
Greece . . . . .	2	West Indies . . . . .	2
Italy . . . . .	31	Yucatan . . . . .	2
		Total . . . . .	594

The following table shows the number of foreign exchanges receiving the different publications:

Anthropological . . . . .	289
Botanical . . . . .	299
Geological . . . . .	328
Ornithological . . . . .	186
Zoological . . . . .	275
Report . . . . .	594

The publications are distributed to the different States and Insular Possessions as follows:

Alabama . . . . .	2	Nevada . . . . .	1
Arizona . . . . .	1	New Hampshire . . . . .	5
Arkansas . . . . .	1	New Jersey . . . . .	16
California . . . . .	32	New York . . . . .	93
Colorado . . . . .	13	North Carolina . . . . .	5
Connecticut . . . . .	23	New Mexico . . . . .	1
Delaware . . . . .	2	Ohio . . . . .	22
District of Columbia . . . . .	79	Oregon . . . . .	1
Florida . . . . .	1	Pennsylvania . . . . .	37
Georgia . . . . .	1	Rhode Island . . . . .	5
Illinois . . . . .	74	South Carolina . . . . .	1
Indiana . . . . .	12	South Dakota . . . . .	2
Iowa . . . . .	13	Tennessee . . . . .	2
Kansas . . . . .	9	Texas . . . . .	2
Kentucky . . . . .	2	Utah . . . . .	1
Louisiana . . . . .	4	Vermont . . . . .	3
Maine . . . . .	5	Virginia . . . . .	3
Maryland . . . . .	11	Washington . . . . .	3
Massachusetts . . . . .	69	West Virginia . . . . .	4
Michigan . . . . .	11	Wisconsin . . . . .	17
Minnesota . . . . .	11	Wyoming . . . . .	2
Mississippi . . . . .	2	Philippine Islands . . . . .	2
Missouri . . . . .	15	Porto Rico . . . . .	1
Montana . . . . .	3	Hawaii . . . . .	5
Nebraska . . . . .	7	Total . . . . .	637

The following tables show the number of domestic exchanges receiving the different publications:

Anthropological . . . . .	264
Botanical . . . . .	327
Geological . . . . .	344
Ornithological . . . . .	182
Zoological . . . . .	285
Report . . . . .	637

The distribution of the publications to foreign countries continues to be accomplished through the courtesy of the Bureau of International Exchanges of the Smithsonian Institution.

The eighth edition of the Guide was issued during the year, and several improvements will be noted in its general make-up. The descriptions of the collections, in several instances, have been curtailed, thus making the book more convenient for ready reference. This issue is illustrated which it is expected will add to its value and interest.



**LIBRARY.**—The accessions in the Library during the year aggregated in volumes and pamphlets 2,755; by purchase 386, by gift and exchange 2,369, bringing the total number of books and pamphlets in the library to 44,514, distributed as follows:

	Books and Pamphlets.
General Library . . . . .	33,091
Department of Anthropology . . . . .	1,466
Department of Botany . . . . .	3,695
Department of Geology . . . . .	5,299
Department of Zoölogy . . . . .	963

The routine work of classifying, labeling, accessioning, and cataloguing the books and pamphlets as they were received continued through the year on the same basis as in preceding years. Through the medium of exchange with contemporary institutions, upon which the library depends largely for its growth, it continues to receive valuable publications. Exchanges have been received from 583 institutions and 130 individuals. Gifts to the General Library worthy of special mention have been received from Mr. Stephen Sommier, Florence, Italy, 1 volume; Mr. Theodor Koch-Grunberg, Berlin, 4 volumes; Mr. John W. Barrett, Washington, D. C., 10 volumes; Mr. H. N. Higinbotham, Chicago, 28 volumes; Mr. Frederick J. V. Skiff, 81 volumes; Naturhistorische Verein, Bonn, 58 volumes; Naturforschende Gesellschaft, Zurich, 47 volumes; Royal Society, London, 38 volumes; Geological Survey of Canada, 12 volumes; Maryland Geological Survey, 7 volumes. Twelve installments of the John Crerar Library cards have been received, alphabetically arranged, and filed; 11,211 cards have been written and distributed in the catalogue. A special feature of the work during the year has been the formation of a Library of Exposition Literature. The volumes presented for the formation of this library by Sir Henry Trueman Wood, Commissioner to the World's Columbian Exposition, Mr. H. N. Higinbotham, President of the World's Columbian Exposition, and Frederick J. V. Skiff, approximated 1,100 books and pamphlets. From this collection, 668 titles have been selected, chronologically arranged, accessioned, catalogued, and installed in a special room provided for the purpose. The unbound books are at present in the bindery, and the miscellaneous pamphlets will be filed in neat cloth boxes. The whole forms a very creditable reference library of literature on Expositions from 1851 to 1904. The duplicates of this material have been arranged in three groups. Group 1 contains 260 titles, group 2 contains 156

titles, group 3 contains 88 titles. These several groups have been packed separately, and await further disposition. A number of valuable books have been purchased during the year, but many more are desired, particularly in the departments of Anthropology and Botany.

**DEPARTMENTAL CATALOGUING, INVENTORING AND LABELING.** — The cataloging in the Department of Anthropology has been continued almost without interruption throughout the year, over 12,000 specimens having been catalogued, and a card catalogue made of about 7,500 specimens, all of which have been entered in the inventory books, which now number twenty-seven.

All the specimens of a number of installed cases in the Department of Botany have been exhaustively labeled; all labels for the dendrologic installation are printed and in readiness for use. The copy has been written for all the unlabeled material that has been installed; all new material has been properly organized, catalogued and cared for; the index of vernacular names and references augmented by several thousand cards, and all matters pertaining to the collections and work of the department kept rigidly up to date.

Specimens in the Department of Geology are inventoried and catalogued as received. The total number of entries made during the year is 10,635, which, added to the previously recorded number, gives 72,837 as the total present number of entries in the Department. The principal work of labeling performed was in connection with the systematic mineral collection and the collections in Hall 78. For the systematic minerals a total of 1,925 labels was prepared during the year, of which 1,536 have been printed and distributed. The sizes of labels used for this collection are governed by those of the specimen mounts, four different forms being employed. For the collections in Hall 78, 957 labels have been prepared, of which 838 have been printed and distributed. These labels also vary in size, according to the size of the mount, three forms being employed, besides descriptive labels. Aluminum ink and black cardboard have been used for all these labels. The increased interest evinced by visitors in these collections since the labeling has been completed is noticeable and gratifying. Additional labels prepared during the year have included fourteen fully descriptive labels for the relief maps and about one hundred labels for meteorites and paleontological specimens.

In the Department of Zoölogy considerable clerical work was accomplished, the entries in the inventory books registering 9,445,

while over 1,000 cards were added to the box catalogue. In the Division of Ornithology over 7,000 labels were prepared, and attached to the specimens in the study collection.

The year's work on catalogues and inventorying is shown in detail as follows:

	No. of Record Books	Total No. of Entries to Dec. 31, 1907.	Entries during 1907.	Total No. of Cards Written.
Department of Anthropology .	31	93,020	12,896	96,910
Department of Botany . .	49	219,800	26,310	.....
Department of Geology . .	20	72,837	10,635	6,630
Department of Zoölogy . .	21	67,452	10,102	23,911
The Library . . . . .	11	57,130	6,241	66,085
Section of Photography . .	6	59,523	10,600	.....

ACCESSIONS.—The most important additions to the Department of Anthropology during the year have been acquired through expeditions. Foremost among these is the material obtained by Assistant Curator Simms from the Igorot tribes of northern Luzon, chiefly from the provinces of Lepanto, Bontoc, and Nueva Vizcaya. Mr. Simms remained many months in this region, as noted in the last report, engaged in investigation under the Robert F. Cummings fund. The collection is probably the largest and most representative ever made from any one tribe in the Island. Second in importance is a large and representative collection of ethnological specimens, illustrating the culture of the Sauk and Fox Indians, of Tama, Iowa, made by Dr. William Jones. This collection admirably supplements one made at the same place several years ago by the Curator of the Department. As a result of the expedition from the Department of Zoölogy in British East Africa, Mr. C. E. Akeley brought back several hundred unusually interesting specimens, representative of the culture of several tribes of that region. Mr. V. Shaw Kennedy, who accompanied Mr. Akeley on that expedition, brought a number of specimens to Chicago with him, and has presented them to the Museum. From Vice-president Ryerson has been received, as a gift, a small but valuable collection made a few years ago by Curator Cory among the Seminoles of Florida. From Tuan Fang, a viceroy of The Two Kiang Provinces, China, was received a very interesting, ancient Chinese monument, bearing inscriptions in excellent state of preservation. This gift of the Viceroy was to commemorate his visit to this Institution. Of the collections acquired by purchase, the largest was that secured from a well-known

London dealer in ethnological material. This collection consisted almost exclusively of rare specimens from different islands of the Pacific, especially Polynesia, and some unusually interesting material from Benin, West Africa. The most notable specimens in this collection are four beautifully carved ceremonial clubs from the Marquesas Islands. From Mr. Irving Channon, for many years a missionary to Micronesia, was secured by purchase a collection of several hundred specimens from that region, especially from the Marshall and Gilbert groups. These specimens are of more than usual value, for they were collected personally by Mr. Channon, and are thoroughly identified as to locality. From Mr. Rudolph Parkinson, Ralum, Bismarck Archipelago, was secured by purchase seventy-seven skulls from New Britain. Two exchanges with other institutions have been made during the year, which are worthy of mention. One is with the Brooklyn Institute Museum, whereby this Institution secured a large quantity of osteological material from the Southwest, and a small, but carefully selected collection of ethnological specimens from the pueblo of Zuñi. Arrangements were made during the year whereby the Museum expects to receive shortly from the Museum für Völkerkunde, of Berlin, a considerable portion of the great collection made in the interior of Brazil by Theodore Koch. Word has been received by the Museum that Mr. Cole has shipped from Manila a very large collection of ethnological material, which he has accumulated during his two years' residence with the Tinguianes, in north-western Luzon, especially in the province of Abra.

In the Department of Botany the most important accession during the year is the complete herbarium of the University of Chicago, founded upon the collections of Prof. John M. Coulter, and augmented under his direction. This herbarium has been entirely rearranged for the purpose of cataloguing and distribution into the organized herbarium of the Museum. It is found to contain about 51,000 specimens, of which about three fourths are mounted. The principal collectors represented by fairly complete sets are: O. D. Allen; Baker, Earle & Tracy; John Ball, Thomas H. Bonser, Wm. Canby, M. A. Carleton, John M. Coulter, A. H. Curtiss, Drake & Dickson, B. W. Evermann, M. L. Fernald, Heyde & Lux, Volney Havard, F. H. Horsford, Thos. Howell, Marcus E. Jones, T. H. Kearney, Jr., T. Kirk, B. F. Leeds, J. G. Lemmon, G. C. Neally, Edward Palmer, S. B. Parish, H. N. Patterson, C. G. Pringle, C. A. Purpus, J. Reverchon, Sadie Rider, Robinson &



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COLOBUS MONKEY KUJABI BRITISH EAST AFRICAN EXPEDITION, 1905-7

Schrenk, J. N. Rose, J. H. Sandberg, H. E. Seaton, Mrs. Dr. Henry Sheldon, J. H. Simpson, John K. Small, John Donnell Smith, W. N. Suksdorf, W. F. Thurrow, E. B. Uline, Geo. R. Vasey, Mrs. S. B. Walker, H. N. Whitford, and W. G. Wright. With this herbarium the University transfers all its taxonomic research to this Museum. Another important herbarium has been secured in that of the noted Swedish botanist, Dr. L. J. Wahlstedt. The collection numbers approximately 15,000 specimens, chiefly of European plants, and is especially rich in *Characeæ*, *Violæ*, and *Epilobia*. The *Characeæ* alone are represented by upwards of 2200 critically determined specimens, and the *Violæ* by about 1500 specimens. Some of the more noteworthy series of *exsiccataë*, illustrating these groups of plants included in the herbarium, are the following: *Die Characeen Europa's in getrockneten Exemplaren*, Prof. Dr. A. Braun, Dr. L. Rabenhorst and Dr. E. Stizenberger; *Characeæ Americanæ exsiccataë*, T. F. Allen; *Characeæ Scandinaviæ exsiccataë quas distribuerunt* O. Nordstedt et L. J. Wahlstedt; *Characeæ* of Denmark, P. Nielsen; *Characeæ exsiccataë*, Migula, Sydow et Wahlstedt; *Characeæ* of Great Britain, A. Bennett; *Characeæ* of England, H. & I. Groves; *Characeæ suecicæ*, O. Nordstedt; *Characeæ suecicæ*, L. J. Wahlstedt; *Algæ Scandinaviæ exsiccataë, quas adjectis Characeis, distribuit* John Erh. Areschoug; *Violæ Sueciæ exsiccataë*, Neuman, Wahlstedt, Murbeck; *Violæ exsiccataë*, W. Becker. The Wahlstedt herbarium also contains many other important collections, including the excellent series, *Marsiliaceæ in horto Berolinense cultæ, editæ* 1870, A. Braun; *Flora exsiccata*, and *Rosarum Europeanum exsiccatarum*, M. Gandoger. The other notable acquisitions are: G. M. Emerick, Mexico, 257; Barbados Botanic Station, 115; C. Conzatti, Mexico, 362; Estacion Agronomica de Cuba, 156; Edward Palmer, Mexico, 949; N. Y. Botanical Garden, West Indies, 1362; A. A. Heller, California, 1329 and Oregon, 419; W. A. Kellerman, Guatemala, 207; Louis J. K. Brace, Bahamas, 1715; Britton & Millspaugh, Bahamas, 922; C. C. Deam, Guatemala, 89, C. G. Pringle, Mexico, 343; C. A. Purpus, Mexico, 519; Bureau of Science, Philippines, 94; Frank C. Gates, Illinois, 137; Pere Duss, Guadeloupe, 1046, and Martinique, 574; W. W. Calkins, Illinois, 221; American Colony, Palestine, 172; Theo. Holm, Colorado, 201, and District of Columbia, 333; Mrs. M. Tuttle, California, 240; Mrs. E. G. Britton, Bahamas, 190; U. S. National Herbarium, Central America, 186; Caldwell & Baker, Cuba, 82; Gray's N. A. *Cyperaceæ* & *Graminæ*, 158; and F. Lindheimer, Texas,

623. The mounting and incorporation of the Patterson herbarium has been completed, and a large number of sheets from the herbarium of John K. Small, acquired some time ago, have been organized, catalogued and inserted. The accessions for the year (in so far as the specimens have been inserted in the organized herbarium) represent the following localities:

	ADDED THIS YEAR	TOTAL IN HERBARIUM
NORTH AMERICA		
Alaska . . . . .	8	319
Canada . . . . .	118	1,840
Alberta . . . . .	15	16
Anticosti Island . . . . .	6	6
British Columbia . . . . .	7	276
Grinnell Land . . . . .	6	12
Labrador, . . . . .	2	152
Manitoba . . . . .	3	3
North West Territory . . . . .	12	12
New Brunswick . . . . .	10	558
Nova Scotia . . . . .	6	102
United States:		
Alabama . . . . .	41	732
American Plains . . . . .	3	89
Arizona . . . . .	518	3,522
Arkansas . . . . .	27	185
California . . . . .	1,701	11,448
Colorado . . . . .	815	5,354
Connecticut . . . . .	11	217
Delaware . . . . .	137	836
District of Columbia . . . . .	390	1,808
Florida . . . . .	174	9,929
Florida Keys . . . . .	1	223
Georgia . . . . .	43	3,025
Idaho . . . . .	6	718
Illinois . . . . .	1,556	15,565
Indiana . . . . .	91	3,254
Indian Territory . . . . .	18	149
Iowa . . . . .	30	1,269
Kansas . . . . .	10	176
Louisiana . . . . .	121	941
Maine . . . . .	175	853
Maryland . . . . .	70	738
Massachusetts . . . . .	413	2,038
Michigan . . . . .	156	1,989
Minnesota . . . . .	9	587
Mississippi . . . . .	25	1,757
Missouri . . . . .	41	626
Montana . . . . .	16	2,772

	ADDED THIS YEAR	TOTAL IN HERBARIUM
United States:		
Nebraska . . . . .	3	161
Nevada . . . . .	34	139
New Hampshire . . . . .	237	933
New Jersey . . . . .	163	1,397
New Mexico . . . . .	213	1,604
New York . . . . .	378	4,561
North Carolina . . . . .	110	863
Ohio . . . . .	40	659
Oregon . . . . .	910	4,054
Pacific Coast . . . . .	47	366
Pennsylvania . . . . .	498	6,542
Rhode Island . . . . .	84	466
Rocky Mountains . . . . .	19	700
South Carolina . . . . .	44	541
South Dakota . . . . .	1	83
Tennessee . . . . .	113	661
Texas . . . . .	936	3,621
Utah . . . . .	180	539
Vermont . . . . .	232	1,029
Virginia . . . . .	148	743
Washington . . . . .	436	3,113
West Virginia . . . . .	38	1,210
Wisconsin . . . . .	10	734
Wyoming . . . . .	307	611
Yellowstone National Park . . . . .	25	264
Mexico . . . . .	2,955	19,241
Coronados Islands . . . . .	1	7
Lower California . . . . .	242	1,380
Yucatan . . . . .	1	4,619
Central America		
Costa Rica . . . . .	28	366
Guatemala . . . . .	415	748
Honduras . . . . .	11	189
Nicaragua . . . . .	1	85
Panama . . . . .	1	37
San Salvador . . . . .	20	20
United States of Colombia . . . . .	99	2,418
West Indies . . . . .		
Antigua . . . . .	1	11
Bahamas		
Acklin's Island . . . . .	255	256
Conception Island . . . . .	50	50
Andros . . . . .	901	1,216
Cat Island . . . . .	247	367
Crooked Island . . . . .	237	294



West Indies:	ADDED THIS YEAR	TOTAL IN HERBARIUM
Bahamas		
Eleuthera . . . . .	415	576
Fortune Island . . . . .	223	308
Little San Salvador . . . . .	44	44
Long Island . . . . .	140	140
New Providence . . . . .	95	1,757
Rum Cay . . . . .	75	76
Watling's . . . . .	154	185
Barbados . . . . .	225	305
Bermuda . . . . .	253	473
Cuba . . . . .	241	4,243
Guadeloupe . . . . .	1,046	1,059
Jamaica . . . . .	703	3,819
Martinique . . . . .	574	601
Porto Rico . . . . .	168	3,334
Culebras Island . . . . .	122	210
Europe		
Austro-Hungary . . . . .	36	4,101
Belgium . . . . .	3	70
England . . . . .	61	133
Finland . . . . .	4	8
France . . . . .	9	1,453
Germany . . . . .	101	4,046
Italy . . . . .	8	913
Norway . . . . .	6	207
Poland . . . . .	1	42
Russia . . . . .	76	1,226
Scotland . . . . .	1	12
Spain . . . . .	1	41
Sweden . . . . .	5	462
Switzerland . . . . .	12	1,005
Africa . . . . .	3	1,449
Australia . . . . .	115	781
Formosa . . . . .	2	1,020
Palestine . . . . .	172	827
Philippine Islands . . . . .	94	1,068
Total . . . . .	22,650	

It is to be understood that the above summary does not include the whole herbarium, but only tabulates localities that have received additions during the past year.

Among the accessions by gift in the Department of Geology, the following may be mentioned: a large specimen of crystallized copper from Cananea, Mexico, from Mr. Edward E. Ayer; four superb specimens of emerald and aquamarine, one specimen of parisite, and

eight specimens gold ores, all from the United States of Colombia, from Señor F. Pereira Gamba; eleven specimens rough and polished smoky quartz crystal from Butte, Montana, from Mr. A. P. Pohndorf; seven relief maps from the Atlas School Supply Company; seven specimens of the diamond-bearing rocks of Pike County, Arkansas, from Mr. A. Q. Millar; two large specimens lead and zinc ores from Platteville, Wisconsin, from the Empire Mining Company; five specimens Peruvian vanadium ores, from the American Vanadium Company; nineteen specimens clays and briquettes, from Mr. John J. Moroney; and several specimens copper ores and barites, from the Chicago Copper Refining Company. Several valuable accessions were received by exchange, among which may be mentioned a large section, of the Santa Rosa meteorite, from Mrs. L. A. Coonley-Ward; of the Elm Creek meteorite, from Ward's Natural Science Establishment; and of the Goalpara meteorite, from the Geological Survey of India. From the Geological Survey of Canada was received, in a similar manner, a fine cast of the Iron Creek meteorite; from J. E. Narraway, a series of fossil trilobites, and other invertebrates, and from Junius Henderson, a series of Cretaceous mollusks from Colorado. The most important accession by purchase was that of the Fultz collection of invertebrate fossils, numbering over five thousand specimens. This collection is especially valuable for the series of crinoids and blastoids of Lower Carboniferous age which it contains. They were collected from the Burlington limestone, at the locality which furnished the finest specimens ever secured while it lasted, but which is no longer productive. In addition, about four thousand invertebrate fossils from other localities in the Mississippi Valley were secured with the collection. A small collection purchased from Prof. A. H. Cole furnished about 250 specimens of Palæozoic invertebrates from New York and Vermont localities. A seventeen pound individual of the Admire meteorite was purchased; also a fine series of topaz associated with phenacite, from Chatham, New Hampshire. Accessions by expeditions include about forty specimens of ores, minerals, and rocks from the north shore of Lake Superior, collected by the Curator; about nine hundred specimens Devonian invertebrate fossils, from Little Traverse Bay, Michigan, collected by the Assistant Curator of Invertebrate Paleontology, and about forty specimens erosion forms, from Little Sister Bay, Wisconsin, collected by the Curator of Botany.

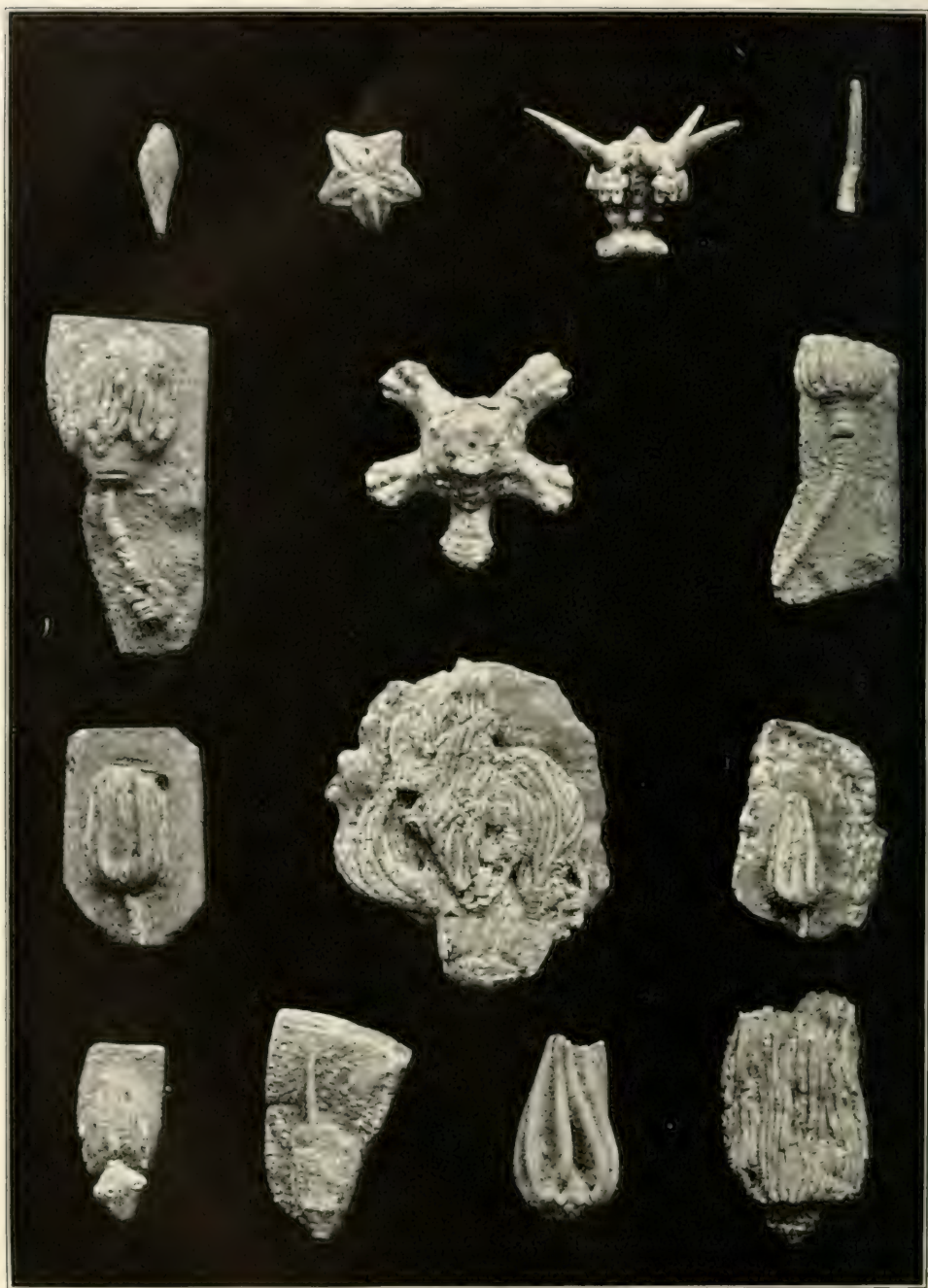
The Curator of Zoölogy reports that the accessions in the Division

of Ornithology number 626 specimens, most of which were collected by members of the staff, in Illinois and adjoining states. There were 216 specimens added by purchase, and a number of valuable gifts also appear in the list. The Department collected mammal skins in Illinois, Wisconsin, and California, numbering nearly 500 skins. The expedition conducted by Chief Taxidermist Akeley contributed mammal specimens from British East Africa, mention of which is made elsewhere. In the divisions of Ichthyology and Herpetology, there were added, approximately, 2,000 specimens, of which one half were received from the East African Expedition. The number of insects added were considerable over 3,500, mostly from Illinois, Michigan, and Wisconsin. The Museum also purchased a valuable collection of shells from a collector in Indianapolis. An interesting series of shells, illustrating the pearl button manufacture, was presented by the Automatic Button Company, of Muscatine, Iowa. Two sponges and two hydroids from Cape Nome were presented by Mr. H. A. Ring.

**EXPEDITIONS AND FIELD WORK.**— During part of the year the Curator of Anthropology continued his investigations among the Pawnee, in behalf of the Carnegie Institution of Washington. In connection with this work he spent ten weeks at Columbia University, working up the linguistics of the Skidi Pawnee, under the direction of Dr. Franz Boas. Three investigators are now in the field in the Philippine Islands, engaged in ethnological investigation, funds for this work having been generously provided by Mr. Robert F. Cummings, as referred to in the last report. Miss Laura E. Benedict is still among the Bagobo, where she has been now for nearly two years. Mr. Fay Cooper Cole left Chicago in December, 1906, and proceeded to northwestern Luzon, where he has remained since, investigating the ethnology of the little-known Tinguianes, in the province of Abra, Ilocos Sur, and Ilocos Norte. During this time Mr. Cole has made several hundred photographs, a large number of life masks, and has made numerous physical anthropological studies. At the present time he is engaged in linguistic investigations. Dr. William Jones left Chicago in August, and proceeded to Manila, whence, after making certain preparations, he left for a period of at least two years' investigation among the practically unknown tribes in eastern and northern Luzon. When last heard from, Dr. Jones was ascending the Cagayan River, and expects to make his headquarters at Echague. His special object in this region will be the investigation of the Negritos. Before

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FOSSIL CRINOIDS. DEPARTMENT OF GEOLOGY.



leaving for the Philippines, Dr. Jones spent a month among the Sauk and Fox Indians of Tama, Iowa, making a study of their material culture, and obtaining specimens for the Museum. Through the generosity of Mrs. T. B. Blackstone, who has recently provided a fund, the department has been able to add to its staff Dr. Berthold Laufer, who is now making preparation to start for a three years' period of investigation in Tibet. This gift of Mrs. Blackstone marks a new era in the history of the department. It is not only the largest sum ever set aside for one specific object, but it enables the department to undertake an investigation of almost universal interest, and to place in charge of it one thoroughly competent. As a result of the Blackstone Tibetan Expedition, it is expected that not only will there be assembled a great collection illustrating every phase of the material culture of the Tibetans, which will be of the very greatest value to all students of the history of Asiatic culture, but it is believed that, through Dr. Laufer's investigation in early Tibetan literature, he will make material contributions to the general history of human culture. In this connection, it is interesting to note that the Newberry Library has made a special contribution of \$4,000.00, which is to be expended by Dr. Laufer, during his three year's residence in Asia, in the purchase of a library of Tibetan literature.

The Curator of the Department of Botany, in company of Dr. N. L. Britton, Director of the New York Botanical Garden, spent ten weeks of the early spring in a continuance of their explorations of the Bahamian Archipelago. A schooner was chartered and commissioned, at Nassau, from which large and particularly exhaustive collections were made on Eleuthera, Cat Island, Conception Island, Little San Salvador, Long Island and Watling's. All these islands were crossed afoot at several points, and traversed for considerable distance in all directions, from a number of landing places. The expedition returned about two thousand specimens, and secured critical notes, observations, and photographs of fully fifteen hundred more. This work was also augmented by commissioning Mr. Louis J. K. Brace to explore thoroughly Acklin's Island, Crooked Island, Fortune Island, and the north end and northwest side of Andros. His work resulted in two thousand additional specimens from these interesting localities. Another expedition, in continuance of this same work, was sent out in December, consisting of Dr. M. A. Howe, Mr. Percy Wilson, and Louis Brace; they are to undertake the southeastern islands of the group—French Cays, Samana, Mariguan, the Caicos,

and the Ragged Cays. Mr. Huron H. Smith, Preparator in Dendrology, spent six weeks in southeastern Missouri, at three forest points, in the collection of North American Forestry material. The collections, amounting to over a car load of material, will be reported upon later. Mr. O. E. Lansing, Jr., has continued his field work in the Lake Chicago Basin, adding a number of species to his quite exhaustive series from this region.

The Curator of the Department of Geology collected a series of ores, minerals, and rocks from various localities on the north shore of Lake Superior during a trip made to that region in July. Some valuable geological photographs of the region were also made. Photographs illustrating the ancient shore-lines of Lake Chicago, designed for exhibiting in connection with the relief map of the region, were also made by the Curator during the fall. Mr. A. W. Slocum carried on some collecting in the region of Little Traverse Bay, Michigan, continuing the work of last year. Especially fine series which he secured were those of fossil corals, stromatoporoids and brachiopods. Pleistocene fossils, from the marls of Oden and Kegonic, were also obtained. In all about nine hundred specimens were obtained, which, added to those collected last year, afford a representative series of the Hamilton and Pleistocene fossils of the region. Occasional visits were also made by Mr. Slocum to quarries in the Chicago Basin, for the purpose of securing any new material excavated. From this material, and that previously secured, he described during the year nine new species of crinoids. No field work was undertaken in vertebrate paleontology, the work of erecting the Dinosaur skeleton having, of necessity, engrossed the entire attention of the staff.

At the date of the last Report, the African expedition was on its way back to the United States. Mr. C. E. Akeley, the Chief of the Expedition, provides the following narrative:

"We left Chicago August 13, 1905, arriving in London August 26th, where we joined Mr. Vernon Shaw-Kennedy, who had gone on some weeks in advance for the purpose of preparing the outfit, most of which, consisting of supplies, food, tents, amunition, photographic material, etc., was purchased in London. Mr. Edmund Heller, who had been called from field work in Central America to accompany the expedition, overtook us in London, and on September 8th, we sailed from Dover by the S. S. President of the D. O. A. Line, arriving at Mombasa, East Coast of Africa, on October 8th. Our goods were duly landed, passed through the customs; porters, gun-bearers, and

personal servants were engaged, licenses procured, and on October 14th, we boarded a train on the Uganda Railway and on the following day arrived at Nairobi, 327 miles inland. October 18th, we began active operations in the field, within twenty-five miles of Nairobi, on the Athi Plains. Two and a half months were spent in this region, and in the number of specimens collected, this was the most productive period of the entire trip. On December 30th we moved our camp, by rail, to Kijabe, forty-four miles up the line, for the purpose of securing a series of Cape Buffalo. A month spent here resulted in obtaining only a single specimen of Buffalo and a fair number of other specimens, among which were a series of Colobus Monkeys and a Rhinosceros. The following month (February) was spent at Lake Elementeita, fifty miles northwest of Kijabi, and this proved a reasonably profitable month. About March 8th the outfit was again moved by rail to Molo, 484 miles from the coast, where we went into camp some twelve miles south of the railway. Our stay here was made exceedingly unpleasant by the incessant cold rains, and failure, again, to secure Buffalo contributed to our discomfiture. We were fairly recompensed, however, for the time spent, by the addition to our collections of a series of Topi, a series of Jackson's Harteebest, a very fine male lion, and a number of smaller mammals. Early in April we returned coastwards to Voi, 100 miles inland from Mombasa. We had postponed our visit to Voi until the last because of the unhealthfulness of the region, and the two weeks spent there resulted in a meagre showing of material collected, owing to fever attacking two of our party, as well as a large number of the employed natives. The caravan was discharged at the close of our work at this place, and we returned to Nairobi, and proceeded to pack the collections for shipment. Messers. Shaw-Kennedy and Heller made preparations to return home at this time. The work of packing the collections occupied five weeks, the lack of proper facilities making it a tedious task; fifty barrels that had been ordered from London proved useless, and obliged us to resort to the use of old oil casks obtained from the Railway Company. About May 1st, upon receipt of instructions from the Museum authorities, application was made for permission to cross the Tana River in quest of Buffalo, which was granted, on the understanding that we were not to avail ourselves of the privilege until July. It was therefore decided to employ the intervening time in collecting accessory material for some of the groups, specimens for which had been previously secured. Accordingly, about June 1st, we



engaged the necessary porters and returned to Athi Plains, where three weeks were spent at Kijabe in making studies for Lion and other groups, and three days in gathering accessory material for a Colobus Monkey group. We then moved to Naivasha (June 28th), with the intention of collecting birds and accessories for a group of the aquatic birds of the Lake Naivasha region. Upon our arrival at the lake, we learned that a closed season had been declared, but, anticipating no difficulty in securing permission to collect the limited amount of material required, application was made to the authorities, who, much to our surprise, refused the desired privileges. Ten days were lost in awaiting this disappointing decision. The trans-Tana trip had been indefinitely postponed on account of trouble with the natives at the base of Mt. Kenya, where the government had sent troops, and were at this time, July 10th, engaged in warfare, but as it seemed likely that the trouble was nearing the end, the services of Mr. R. J. Cunningham, professional hunter and safari runner, were secured, and we headed for Fort Hall and the Tana River, with the intention of looking for Elephants on the way; three weeks were spent on the Aberdare Mountains, during which time we prepared the skin of one Elephant, a series of Duiker, and a number of other specimens. Upon our arrival at Fort Hall, August 14th, we found H. M. Commissioner, Col. Hayes-Sadler, with his suite, about to depart in company with the Sub-Commissioner, Mr. S. L. Hinde, on a trip into trans-Tana country. Permission was given us to shoot Elephants on Mt. Kenya, as well as Buffalo on the plains. We were honored with an invitation from the Commissioner to accompany the official party so far as our routes paralleled, an invitation which was gratefully accepted. A week later, the edge of the forest at the base of Mt. Kenya was reached, and here work with the Elephants was begun. The five weeks spent among the Elephants was eminently satisfactory in point of experience, and knowledge gained of the habits of these interesting animals, but disappointing in that we failed, for want of time, in securing all the specimens required for the group. The return from Mt. Kenya to the Tana River was distressingly slow and tedious, owing to the difficulties encountered in securing porters to move the material, but the Tana was finally reached on October 2nd, and a few days later we proceeded down the river in search of Buffalo. Some six weeks elapsed before we finally succeeded in securing the last of the six specimens desired. The three months in trans-Tana country were months of hard work



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CAPE BUFFALO (YOUNG BULL) KENYA PROVINCE BRITISH EAST AFRICAN EXPEDITION, 1905-7.

and bitter disappointments, but results, on the whole, were satisfactory, in that the material obtained was eminently desirable, and difficult to secure. We returned to Fort Hall on November 22nd, and with 175 porters proceeded to Nairobi with the collections. Mr. Cunningham returned by way of the Aberdare, to bring in the Elephant and other skins that had been left on the summit of the mountains, nearly four months previously. We reached Nairobi November 27th and proceeded with the final packing of the collection, which was shipped by rail to Mombasa, which port it left December 21st, on the S. S. Admiral; trans-shipped at Naples, and arrived at New York January 28th. The consignment of 84 packages, weighing upwards of 17 tons, arrived at the Museum in perfect condition."

It seems a fitting opportunity for both the Museum management and the members of the expedition to express their gratitude to those who, through friendly interest and appreciation of the objects of the expedition, contributed to its success: to Mr. Vernon Shaw-Kennedy, for his untiring energy and loyalty to the best interests of the Museum; to Col. Hayes-Sadler, H. M. Commissioner for British East Africa, and Mr. F. J. Jackson, H. M. Deputy Commissioner, for many privileges and concessions which, by virtue of their high offices, they were able to grant; to Mr. S. L. Hinde, H. M. Sub-Commissioner for Kenya Province, the expedition was indebted for more than official assistance; and to Mr. A. Blayney Percival, Game Ranger, whose fund of information relative to the game districts was always available. Acknowledgment is also made of courtesies and concessions granted by the officials of the Uganda Railway, and for the hospitality and good-will accorded the expedition by all government officials with whom the members of the party were brought in contact.

The following list indicates the gentlemen who had charge of the different Museum expeditions during the year; the localities they visited and the material they obtained:

Locality.	Collector.	Material.
Illinois . . . . .	J. F. Ferry,	Bird Skins.
Bahamas . . . . .	L. J. K. Brace,	Herbarium Material.
Andaman and Nicobar Islands . . . . .	Alfred R. Brown,	Ethnological Specimens.
Philippine Islands, (R. F. Cummings Expedition) .	F. C. Cole,	Luzon Ethnology.
Little Traverse Bay, Michigan. . . . .	A. W. Slocum,	Invertebrate Fossils.
Wisconsin and Illinois . .	E. Heller,	Mammals.



Locality.	Collector.	Material.
Illinois . . . . .	C. M. Barber,	Fishes and Reptiles.
Bahamian Archipelago . . .	C. F. Millspaugh,	Herbarium and Economic Material.
Sauk and Fox Indians.		
Tama, Iowa . . . . .	William Jones,	Ethnological Specimens.
Illinois . . . . .	H. W. Menke,	Material for Bird Groups.
North West Coast . . . . .	C. F. Newcombe,	Ethnological Specimens.
South East Missouri . . . .	H. H. Smith,	Timbers.
Bahamas . . . . .	N. L. Britton,	Herbarium Material.
Lake Superior . . . . .	O. C. Farrington,	Ores and Minerals.
English Lake, Indiana . . .	C. B. Cory,	Birds Eggs.
Illinois . . . . .	E. B. Chope,	Insects.
Philippine Islands (R. F. Cummings Expedition),	William Jones,	Negrito Ethnology.

INSTALLATION, REARRANGEMENT AND PERMANENT IMPROVEMENT. — At the end of last year the Department of Anthropology reported that more material awaited installation than at any previous time for ten years. This condition was due to the fact that the accessions for two years had been extremely large and numerous. The necessity for resorting to various makeshifts in order to store this great body of material has existed during part of the present year. Late in the year, however, 40 new cases became available, which, at once, made possible a general rearrangement of certain collections of the department. Since the arrival of the new cases, the following collections have been installed: Arapaho, Wasco, Pawnee and Javanese. The extensive collection from Borneo has also been installed, as well as a large part of the collections from Africa. For these collections, however, old cases have been utilized; those from Africa in cases that had been abandoned by the Departments of Geology and Botany. The material from the first Cummings' Philippine Expedition has been installed in Halls 40 and 55, and occupies 28 cases. The new cases have made it possible to remove many collections which have been temporarily installed in Hall 8, and that hall has now been restored to its former condition, and is again devoted exclusively to the archæology of the Southwest. Hall 7 is temporarily occupied by Taxidermy, but it will ultimately receive the overflow collections, both archæological and ethnological, of the Southwest. A portion of the East Annex has been transferred to the Department of Anthropology, and this additional space has made possible an extremely desirable change. There has been transferred to the Annex all collections from regions outside of America, and the provisional



assignment of space at the present time is as follows: Halls 38, 39, 40, 41 and 55, Indonesia; Hall 54, Polynesia and Micronesia; Hall 53, Melanesia; Halls 50-52, Africa; Halls 56-58, Asia. This installation of the collections from the South Pacific and Asia, has made possible the rearrangement of Halls 2, 5, and 6, which are now devoted, as are Halls 1, 3 and 4, to North American ethnology. Mr. J. A. Burt, aside from assisting in the installation of several collections during the year, has carried to completion two interesting and important groups in miniature of the Pawnee, and is well advanced on three additional groups, one being Pawnee, and two Sauk and Fox. The two latter groups have been prepared under the direction of Dr. William Jones.

The collection of ceramics having been removed from Hall 33, the Paleozoic fossils, heretofore exhibited in Hall 35, were transferred thereto. This necessitated the removal of the specimens from ten floor and eight wall cases, moving of the cases, and reinstallation of the specimens. Advantage was taken of the opportunity, also, to thoroughly rearrange the collection. The vacated hall, Hall 35, has been cleared for the exhibition of Dinosaurs, a large amount of this material now being ready for exhibition. In the center of the hall the great Dinosaur torso collected in Colorado by the Museum expedition of 1901, is being erected. This work is of such magnitude that it has occupied nearly the entire time of Assistant Curator Riggs and assistants during the year and is not yet complete. The torso consists of a nearly complete skeleton posterior to the last cervical vertebra, and is of interest as containing the largest number of bones of an individual Dinosaur of such a size ever mounted. The aggregate weight of the bones is about five tons and when mounted they stand fifteen feet above the floor at their highest point. In order to support this great weight and prevent swaying, it was necessary to construct a special framework of structural steel. This consists of a base surmounted by a superstructure, to support the specimen proper. The base has the form of a rectangle, measuring eight by thirty feet. It is made up of two longitudinal channel beams joined together at the ends by transverse beams of the same. Four transverse I-beams, intersected by a single line of longitudinal I-beams act as girders and form a series of four crosses in the median line for the support of the vertical columns. All are firmly bolted together at the intersections by means of angles, as in ordinary structural iron work. Four vertical columns support the weight of the specimen.

These columns are each made up of four angle-beams joined together by means of solid "fillers," and all firmly riveted with flush-head rivets. They vary in size according to the load which they are designed to carry. Each column is braced at its base by four gussets, which are bolted respectively to the four intersecting I-beams, and riveted between the angle-irons of the column in place of the "filler." The four vertical columns support a longitudinal T-beam, firmly bolted to their upper ends. The angles formed by the two are tied by short diagonal braces. The T-beam forms the support of the vertebral column, and is bent so as to conform closely to its inferior outline. It is tapered towards the rear end, so that its size is reduced in proportion to the load it is intended to receive. The individual bones are fastened to this framework by forgings of wrought iron. These supports are bent to conform closely to the surface of the bone in order to be as inconspicuous as possible. They attach to the bones, in most instances, by being bent so as to clasp them firmly. Work on the mount has progressed so that the greater part of the vertebral column is now in place. Many of the bones were so distorted as to require considerable modification before they could be fitted into their respective positions in the skeleton. A missing femur and ilium have been supplied by modeling them in plaster from the corresponding bones of the opposite side, and several ribs and chevrons have been restored as a whole or in part. As it was found necessary to perform a large part of the shaping of the steel contiguous to the skeleton, a gas forge was placed upon the west porch of Hall 35, so as to provide facilities for heating the individual steel pieces. A temporary sheet-iron shed erected over this permits continuance of the work during the winter months. In the cases left vacant in Hall 36 by removal of portions of the dinosaur skeleton for mounting, there have been installed a sacrum and seven dorsal vertebrae of *Brachiosaurus*, and some minor specimens. To the series on exhibition in Hall 59, have been added during the year two skulls of *Promerycochærus* and single skulls of *Merycochærus*, *Hyænodon*, *Hyracodon*, *Procamelus* and *Amphicyon*. In Hall 61 a superb complete skeleton of *Promerycochærus*, worked out during the year, has been placed upon exhibition. Some minor rearrangements of exhibited series have been made in connection with these additions. To the hall of meteorites, Hall 62, a wall case has been added, to provide for increase in the collection, and new specimens received have been installed. Additions to the systematic mineral collection,

Halls 63 and 64, have also been installed as received. A total of 5,469 specimens is now on exhibition in this collection. The remainder of the collection, classified and arranged for study purposes, occupies drawers below the corresponding exhibition cases. The work of providing additional permanent cases for the collections has been continued by furnishing such cases for the systematic rock, marble, and building stone collections. These occupy Halls 66 and 67. The specimens and old cases were entirely removed from these halls, and the walls of Hall 66 renovated and calcimined. Part of the cases removed were transferred to another department, while others were, with some alterations, placed in the departmental library. The new cases provided for the lithological collection are, in general, of the pattern employed for the systematic collection of minerals. The wall cases are, however, one foot instead of two feet deep, and the floor cases are fitted with glass at the ends as well as at the sides. The lights of the wall cases are 68 by 70 inches in dimension, and swing outward by means of hinges at the top. The specimens are installed on four series of six-inch shelves, supported by L-shaped brackets screwed to narrow iron strips bolted to the backs of the cases. The lights in the floor cases are 34 by 56 inches in dimension, and swing outward from the top. The specimens are installed on individual wooden blocks screwed to pyramidal screens which occupy the case interiors. The blocks are distributed so as to avoid a monotonous appearance, and allow for the exhibition of about one hundred specimens in each case. Drawers in the bases of the cases provide space for study collections. Sixteen cases in all have been provided for this hall, eight of which are floor cases, and eight wall cases. For the marble collection, the type of cases employed is like that already in use in Skiff Hall. In place of shelves, however, screens are provided to which the slabs of marble are fastened. The slabs are thus brought in uniform position and close to the eye, while the background enhances the appearance of the whole. Moreover, as in the meteorite cases, the sashes are secured by locks, and felted tongues and grooves, along all unjoined surfaces prevent the entrance of dust. For the installation of objects other than slabs, such as cubes, spheres, and other irregularly shaped specimens, flat cases have been provided. These cases are 44 inches high and 4 by 6 feet in area. The height of the case portion proper is 12 inches. This portion is framed together, with the end lights removable. It rests upon four stout legs, tapering to the floor, all being capable of



sustaining a weight of one ton. The top light in each case, which is that intended to provide the chief area of display, is 44 by 68 inches in dimensions. Nine of these cases have been provided for the hall. Considerable additions have been made to the clay collections, Hall 68, so that it has been necessary to add four cases to the hall, and to consign to storage some of the material previously exhibited there. The cases needed were obtained by moving some from Hall 67. These additions necessitated an entire reinstallation, which has been completed with very satisfactory results. The collection now includes: Two synoptic cases, three cases of brick clays, two cases of fire and potters' clays, and one case of china clays. So far as possible, burned briquettes have been prepared of each clay exhibited, so that the properties of the burned and raw product may be seen together. In addition, a series of type briquettes has been prepared, showing the effect on appearance, and other properties of the clay, of different contents of lime, iron, etc. About five hundred briquettes have been so prepared during the year for exhibition with the collection. The series of diamond-bearing rocks of Arkansas received from Mr. Millar has been installed in Hall 70. This completes this collection quite satisfactorily, as the South African and Brazilian series were already shown here. In Hall 71, the case exteriors have been painted and some needed cleaning and reinstallation performed. The collections in Hall 72 of ores of the precious metals and lead have been rearranged so as to conform to a geographical classification, rather than one depending upon the metal in the ore, as heretofore. This seemed desirable for several reasons, one being that many districts have several metals combined in one ore, so that it has been necessary, in order to represent the different metals fully, to multiply the series more than was desirable. Again it has been found that mining districts are better known, as a rule, than their ores, so that ore is most easily looked for by the visitor under the name of the district. Moreover, the relations of ores and ore deposits to each other can generally be most clearly shown by an arrangement according to districts. Accordingly the collections were rearranged, and the following series are now shown in this hall: One case typical gold ores and placer ores; one case ores from Alaska and British Columbia; one case Washington ores; one case Oregon ores; one case ores from California; three cases ores from Nevada; one case ores from the Black Hills; one case ores from Utah; eleven cases ores from Colorado; two cases of Arizona ores; three cases of New Mexico



ores; one case ores of the Appalachians; three cases ores from Mexico; four cases ores from Colombia; one case ores from other South American localities; one case ores of Australia; two cases ores of Great Britain; and three cases of European ores. The platinum ores, the metallurgical collections, and the large specimens occupying centre and special wall cases, have not been essentially changed. One case, transferred from Hall 67, has been added to those of the hall, and a number of the cases have been repainted. Of the relief maps, Halls 76 and 77, thirteen additional ones have been encased in glass, making twenty-eight in all which are now thus protected. One map has been repainted and several retouched. A series of photographic enlargements, twenty in number, 17 by 20 inches in size, illustrating typical geological or geographical features, has also been mounted upon a swinging stand in Hall 76. Including these, a total of sixty-seven relief maps, seven ordinary maps, and twenty-five framed photographs is at present exhibited in these halls, making an exhibit which, besides attracting the attention of visitors in general, is used extensively for detailed study by classes from the public schools and other institutions. The collections in Hall 78 have been somewhat rearranged, and completely labeled. At present they number as follows: Three cases of abrasives, two cases of phosphates, two cases of mica, two cases of asbestos, one case of sulphur, one case of gypsum, one case of borax, four cases of salts of the alkalies and alkaline earths, two cases of processes and two miscellaneous cases. For the present, only temporary cases, collected from various sources, are available for exhibiting these collections, but it is hoped shortly to replace them with more attractive ones. To the Departmental office and library, as already noted, several of the wall cases formerly in use in Hall 66 were transferred. These cases, with some alterations, have been made to serve as book cases. The additional space thus provided has been filled by the transference of a considerable number of books of a geological nature from the general library stack room, thus relieving the pressure on the latter. About 230 lineal feet of shelving, all under glass, have thus been added to the Departmental library during the year, and the total amount of shelving now available for books in this library is 650 lineal feet. A total of 4,500 books and pamphlets is at present kept in this library. The works are chiefly serials, reports of Government and State surveys obtained by exchange, the private library donated by Director Skiff, and a series of separates and mineralogical books purchased from Mr. Kunz. Provision

of suitable accommodations for an increasing number of maps and atlases was obtained by constructing a map case 2 by 2 by 5 feet in dimension, with 10 sliding shelves. This has also been placed in the Department library. A case of drawers, also constructed for the office, provides storage for labels, minor supplies, etc. The capacity of the storage room proper was increased by the provision of about 120 feet of plank shelving. In the paleontological laboratory, a gratifying amount of material was cleaned from the matrix and made ready for installation. The material so prepared was as follows: A complete skeleton of *Promerycochærus*, two complete skulls and a number of partial skeletons of individuals of the same genus; complete skulls of *Merycochærus*, *Hyracodon* and *Leptauchenia*; incomplete skulls of *Amphicyon*, *Procamelus* and *Hyænondon* and an almost complete skeleton of an undetermined carnivore. In addition, the material in storage was carefully gone over, and all field packages which showed signs of having become loosened were replastered. This was especially necessary for packages which had been shipped from the field encased only in paste, as had sometimes been required by the exigencies of field work.

The work on the Illinois birds and eggs has been pushed and with the exception of several special groups, is almost completed. Over 200 birds have been prepared for exhibition, and the mounted collections in Halls 25 and 26 have been rearranged. A new idea in exhibiting fishes has been developed, a case designed, and the glass tanks to be utilized therein ordered from abroad, and which are expected within a short time. This installation is looked forward to with much interest, being somewhat of a change from previous methods. One of the illustrations of this report presents the latest experimental stage of this departure. In the Division of Entomology, the butterflies have been transferred and relabeled. During the year 680 skulls have been cleaned and returned to the study collection, and 16 ligamentary skeletons have been cleaned and mounted.

In the Department of Botany, during the year, all of the original exposed installation in the galleries of the South Court, and a part of that in those of the West Court, have been taken down, and the specimens cleaned and readjusted for installation in new cases. New case installation has been accomplished as follows: To the Grass Family has been added a half case illustrating the use of a large number of gramineous roots and fibers; a full case illustrating the Oats of the world, and another the Sorghums, Millets, and various odd

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HALL 69. COALS OF THE UNITED STATES.





HALL 69. COALS OF THE UNITED STATES.

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The coal measures are indicated by the black areas on the map, and numbers on the maps corresponding with similar numbers on the specimen distinguish the mines or localities from whence the specimens were obtained. A label attached to each specimen gives analysis and economic and technical data.

food grains; another the Ryes and Barleys, and several of the cases formerly installed have been substantially augmented in species and in interest. To the cases representing the Palm Family, a half case has been added, exemplifying further utilizations of the Cocoanut Palm, and a half case of further specimens of various fruits, including an interesting Date series. A case comprising the Hat Palm, Pondweed, Rush, Calla, and Pineapple families is now in its systematic place. To the Banana family has been added a half case, illustrating by "hands" and ropes, the principal Manila fibers. Another case, including the Yam, Iris, Pepper, Orchid, Canna and Arrowroot families, has been installed in association with the related Ginger family. An interesting series, exemplifying the uses of plants of the Willow, the Australian Oak, the Myrtle and the Birch families, has been added, together with a half case in further exemplification of the Oaks. A case of plants and products of the Poppy and Mustard families, the Smartweeds and the Wormseeds is now installed. Further material has been added to the Nettle family, and the Elms and Proteads have been installed in this relationship. The Clove family is now initiated by a very complete series of the various woods, oils and kinos of Eucalyptus, occupying an entire case. Another case and a half have been included with those illustrating the Bean family. The Laurel family has been augmented to comprise a complete case, and the Sumach family extended with the Cyrillas, the Bittersweets and the Maples, to fill another. The Chocolate and Silk Cotton families are now well exemplified in an interesting complete case devoted to their products. The Olive, Gentian, Strychnine, and Milkweed families are now well represented, and various other natural families, already installed, have received notable and instructive additional material.

PRINTING.—During the year the following work has been performed by this important section:

	Labels.	Other Impressions.
Department of Anthropology . . . . .	1,790	12,475
Department of Botany . . . . .	5,008	21,598
Department of Geology . . . . .	5,098	286
Department of Zoology . . . . .	785	72,325
Director's Office . . . . .		61,082
Higinbotham Hall . . . . .	134	
The Library . . . . .		9,003

PHOTOGRAPHY.—The following table shows the actual results only of a large number of photographic operations, many of which required hours of preparation:

	Negatives.	Prints.	Lantern Slides.	Enlargements.
Director's Office . . . . .	15	32		
Department of Anthropology . . . . .	3,554	3,762	78	45
Department of Botany . . . . .	101	237	142	15
Department of Geology . . . . .	38	122	6	25
Department of Zoology . . . . .	69	1,591	363	
General Distribution . . . . .		74	142	
Totals . . . . .	3,777	5,818	731	85
Total number of inventory entries to December 31, 1907 . . . . .				59,523
Entries from December 31, 1906, to December 31, 1907 . . . . .				10,600
Negatives developed for				
Department of Botany . . . . .				180
Negatives developed for				
Department of Geology . . . . .				12
Negatives developed for				
Department of Zoology . . . . .				82
Total . . . . .				274

**ATTENDANCE.**—The total attendance for the year is 215,422, which is a slight increase over the previous year. An analysis of the admissions is made elsewhere in this report. Among the classes that have visited the Museum in a body during the year, the following may be mentioned :

Schools and Locations.	Teachers.	Pupils.
University of Illinois, Champaign, Illinois . . . . .	1	41
Lake High — Union Avenue and West Forty-seventh Place . . . . .	2	82
Yale — Seventieth and Yale Avenue . . . . .	2	36
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	1	59
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	2	41
Normal Practise — Stewart Avenue and Sixty-eighth Street . . . . .	3	37
University of Chicago — Chicago, Illinois . . . . .	4	46
Forestville — Forty-fifth and St. Lawrence Avenue . . . . .	2	41
Joliet, Ill., High — Joliet, Illinois . . . . .	1	31
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	1	36
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	1	37
Yale — Seventieth and Yale Avenue . . . . .	4	39
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	1	33
Yale Practice — Seventieth and Yale Avenue . . . . .	3	36
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	2	36
Lake High — Union Avenue and Forty-seventh Place . . . . .	1	48
Parkside — Seventieth Street and Seipp Avenue . . . . .	1	40
Hyde Park High — Fifty-seventh and Kimbark Avenue . . . . .	2	43
St. Xavier Academy — 4928 Evans Avenue . . . . .	2	46
Jewish Training School — 199 West Twelfth Place . . . . .	1	31
Wendell Phillips High — Thirty-ninth Street and Prairie Avenue . . . . .	1	30



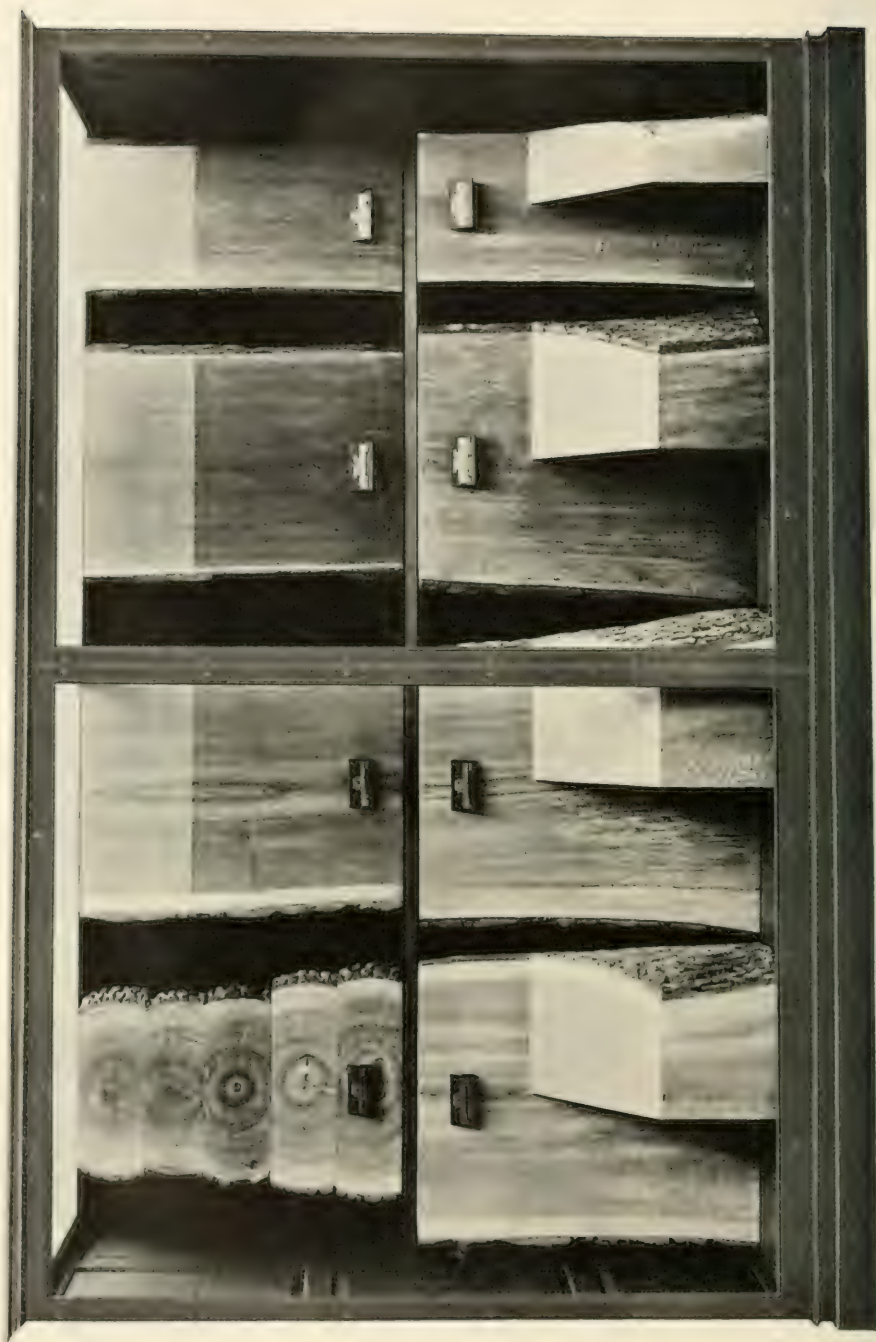
Schools and Locations.	Teachers.	Pupils.
Parkside — Seventieth and Seipp Avenue . . . . .	1	39
Parkside — Ditto . . . . .	1	32
Hyde Park High — Fifty-seventh and Kimbark Avenue . . .	1	41
John H. Hamline — Bishop and West Forty-eighth streets .	2	35
Wells — Ashland and Cornelia Avenue . . . . .	3	68
Englewood High — West Sixty-second and Stewart Avenue .	1	148
Prescott — Wrightwood Avenue and North Ashland Avenue .	1	67
John H. Hamline — Bishop and West Forty-eighth streets .	1	32
Jewish Training School — 199 West Twelfth Street . . . .	3	60
Frances E. Willard — Forty-ninth and St. Lawrence Avenue .	1	43
John H. Hamline — Bishop and West Forty-eighth streets .	2	33
Frances E. Willard — Forty-ninth and St. Lawrence Avenue .	1	43
John H. Hamline — Bishop and West Forty-eighth streets .	2	33
Lake High — Union Avenue and West Forty-seventh Place .	1	50
Jewish Training School — 199 West Twelfth Street . . . .	4	114
Wendell Phillips High — Thirty-ninth Street and Prairie Avenue . . . . .	1	32
Bryant — Riverside, Illinois . . . . .	1	37
Blue Island — Blue Island, Illinois . . . . .	2	35
John H. Hamline — Bishop and West Forty-eighth streets .	2	30
Frances E. Willard — Forty-ninth and St. Lawrence Avenue .	1	30
Washburn — West Fourteenth and Union Street . . . . .	2	62
Prescott — Wrightwood and N. Ashland Avenue . . . . .	2	62
John Ericson — W. Harrison and S. Sacramento Avenue . .	1	32
Auburn Park — Normal Avenue and Eightieth Street . . .	2	46
John H. Hamline — Bishop and West Forty-eighth streets .	2	40
Foster — South Union and O'Brien Street . . . . .	2	122
Blue Island — Blue Island, Illinois . . . . .	2	135
Walsh — Johnson and West Twentieth Street . . . . .	3	91
Goodrich — West Taylor and South Sangamon Street . . .	1	42
William K. Sullivan — Eighty-third and Houston Avenue .	4	80
John H. Hamline — Bishop and West Forty-eighth streets .	3	52
Blue Island — Blue Island, Illinois . . . . .	1	56
University of Chicago — . . . . .	2	82
John H. Hamline — Bishop and West Forty-eighth streets .	2	30
Mt. Greenwood — Mt. Greenwood, Illinois . . . . .	1	33
Bryant — Riverside, Illinois . . . . .	1	36
Morgan Park — Morgan Park, Illinois . . . . .	1	46
Ray — Fifty-seventh and Monroe streets . . . . .	1	42
West Hammond — Hammond, Indiana . . . . .	2	43
Von Humboldt — Rockwell and Hirsch Street . . . . .	4	47
Victor F. Lawson — South Homan and West Thirteenth Street . . . . .	1	49
Whitney — West Twenty-eighth Street . . . . .	1	36
Joliet Training School — Joliet, Illinois . . . . .	69	...
Dore — 207 West Harrison Street . . . . .	2	72
Hyde Park High — Fifty-seventh Street and Kimbark Avenue	1	36

Schools and Locations.	Teachers.	Pupils.
Hyde Park High — Fifty-seventh Street and Kimbark Avenue	1	48
Hyde Park High — Fifty-seventh Street and Kimbark Avenue	1	57
Hyde Park High — Fifty-seventh Street and Kimbark Avenue	1	39
Marquette — South Wood and West Harrison Streets . .	2	46
Bryant — Forty-first Avenue and West Thirteenth Street .	1	38
Hyde Park High — Fifty-seventh Street and Kimbark Avenue	1	80
Wendell Phillips High — Thirty-ninth and Prairie Avenue .	1	33
Wendell Phillips High — Thirty-ninth and Prairie Avenue .	1	30
Normal Practice — Sixty-seventh and Stewart Avenue . .	3	31
Gladstone — South Robey and Washburne avenue . . .	2	61
Hoynes High — Illinois and Cass streets . . . . .	1	30
Englewood High — Sixty-second and Stewart Avenue . .	1	83
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	46
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	49
Hoynes High — Illinois and Cass streets . . . . .	1	90
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	55
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	49
Joliet — Joliet, Illinois . . . . .	2	36
Joliet — Joliet, Illinois . . . . .	1	30
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	55
Chicago Kindergarten College . . . . .	..	38
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	52
Harrison — Twenty-third Place and Wentworth Avenue . .	2	30
Normal Practice — Sixty-seventh and Stewart Avenue . .	3	37
Normal Practice — Sixty-seventh and Stewart Avenue . .	1	40
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	49
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	45
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	..	30
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	98
Yale — Seventieth and Yale Avenue . . . . .	1	31
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	30
Gladstone — South Robey and Washburne Avenue . . .	4	105
University of Chicago — Chicago, Illinois . . . . .	.	43
Wendell Phillips High — Thirty-ninth and Prairie Avenue .	1	40
Hyde Park High — Fifty-seventh and Kimbark Avenue . .	1	35

Herewith are also submitted financial statements, list of accessions, names of members, etc.

FREDERICK J. V. SKIFF,  
Director.

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RUSSIAN WOODS.  
(ROYAL APPENAGES COLLECTION.)

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An alcove case containing Ash, Alder, and Oak. The specimens in the upper row show the trunk in cross and longitudinal sections, illustrating the well-marked annual rings and the grain of the wood on a natural and a finished surface in the same plane. The lower row of specimens shows radial, tangential, and oblique surfaces, and also a distinct view of the bark.

## FINANCIAL STATEMENT.

## GENERAL ACCOUNT.

## RECEIPTS AND DISBURSEMENTS

From January 1, 1907, to December 31, 1907.

## RECEIPTS.

Cash in Treasurer's hands, December 31, 1906. . . . .	\$ 39,741.48
Petty Cash on hand, December 31, 1906 . . . . .	739.95
Dues of Members —	
Corporate . . . . .	\$ 20.00
Annual . . . . .	1,900.00
Admissions and Check Rooms . . . . .	5,695.90
Sale of Guides . . . . .	145.75
South Park Commissioners . . . . .	15,000.00
Huntington W. Jackson Library Fund . . . . .	40.00
Interest on Temple Bonds . . . . .	37,795.77
Field Endowment Income . . . . .	107,333.33
Dividend Illinois Trust & Savings Bank Stock . . . . .	7,932.00
Interest on Calumet Club Bonds . . . . .	360.00
Interest on Daily Balances . . . . .	587.98
Sundry Receipts . . . . .	73.60
R. F. Cummings Philippine Fund . . . . .	4,000.00
Donations — United States Gypsum Company, . . . . .	25.00
	<hr/>
	\$221,390.76

## DISBURSEMENTS.

Salaries		\$ 75,364.37
Guard Service		12,524.12
Janitor Service		7,286.94
Fire Protection		3,281.20
Heat and Light —		
Wages	\$3,588.87	
Fuel	7,057.12	
Gas	338.98	
Supplies	867.78	11,852.75
Repairs and Alterations —		
Wages of Carpenters, Painters, Roofers,		
etc.	11,547.21	
Material used — paints, oils, glass, lumber,		
plaster, etc.	3,404.72	14,951.93
Furniture and Fixtures —		
Cases and Bases,	13,724.69	
Office Furniture,	141.50	13,866.19
The Library —		
Books and Periodicals	1,436.16	
Binding	678.70	
Sundries	60.70	2,175.56
Sections of Printing and Photography		1,203.43
Collections, etc., Purchased		7,227.84
Departmental Expenses		4,853.23
Guide Account, Eighth Edition		499.10
General Expense Account —		
Freight, Expressage and Teaming	1,737.21	
Stationery, Postage, Telephone	1,209.96	
Expeditions	6,529.45	
Publications	3,272.29	
Lecture Course Expenses	753.80	
Liability Insurance	283.50	
Northern Trust Company, Custodian	245.59	
Sundries	995.01	15,026.81
Mrs. Timothy B. Blackstone Fund		66.74
R. F. Cummings Philippine Fund		3,999.18
		\$174,179.39
Illinois Trust & Savings Bank Stock	\$ 3,647.00	
\$30,000 Union Pacific 1st Mortgage Bonds 4%	28,752.14	
Petty Cash	739.95	
In Treasurer's hands, December 31, 1907	14,072.28	47,211.37
		\$221,390.76



ATTENDANCE AND RECEIPTS FROM JANUARY 1, 1907, TO  
DECEMBER 31, 1907.

ATTENDANCE.

Paid Attendance —		
Adults . . . . .	19,513	
Children . . . . .	1,400	20,913
Free Admission on Pay Days —		
School Children . . . . .	5,489	
Students . . . . .	4,382	
Teachers . . . . .	743	
Members: Corporate . . . . .	10	
Annual . . . . .	69	
Life . . . . .	15	
Officers' Families . . . . .	65	
Special . . . . .	91	
Press . . . . .	2	
Admission on Free Days —		
Saturdays . . . . .	40,017	
Sundays . . . . .	143,626	194,509
Total Attendance, . . . . .		215,422
Highest Attendance on any one day (August 23, 1907) .		
		7,375
Highest Paid Attendance on any day (July 4, 1907) .		
		407
Average Daily Admissions (365 days) . . . . .		
		618
Average Paid Admissions (261 days) . . . . .		
		80

RECEIPTS.

Guides Sold — 583 at 25 cents each . . . . .	\$ 145.75
Articles Checked — 13,551 at 5 cents each . . . . .	677.55
Admissions . . . . .	5,018.35
	<hr/>
	\$5,841.65

## ACCESSIONS.

### DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AYER, EDWARD E., Chicago.

1 string of very small colored beads — Egypt.

BROOKLYN INSTITUTE MUSEUM, Brooklyn, New York.

1 Navaho skeleton — New Mexico (exchange).

450 specimens Cliff Dweller objects from Cañon del Muerto and Cañon de Chelly; also Zuni ethnology (exchange).

CAMERON, MRS. W. H.,

1 pair Klamath Indian tule moccasins.

CORY, CHARLES B., Chicago.

1 stone pestle — Brookline, Mass.

FAN, TUAN, Viceroy of the Liang Kiang Provinces, Nanking, China.

1 stone image of the Yuen Chi Tin Chun (God of the Tang Dynasty) — China.

FIELD MUSEUM OF NATURAL HISTORY.

Collected by C. E. Akeley:

816 ethnological specimens — British East Africa.

Collected by William Jones:

317 ethnological specimens from Fox Indians — Tama, Iowa.

Purchases:

1 wooden pipe bowl carved face.

1 stone image Beaver Mound — Bennington, Michigan.

2 belts, 1 lance, 2 drums, 2 drums for hand-game, 1 javelin game,

1 warrior bundle, 1 shirt — Pawnee, Oklahoma.

53 ethnological specimens from the Chilcotin.

180 ethnological specimens — Polynesian Islands and Africa.

1 Solomon Island skull, 7 New Guinea skulls, 1 Chinese skull.

279 ethnological specimens — Micronesian Islands.

77 skulls — New Britain.

1 copper lance point — Dubuque, Iowa.

HANSEN, DR. OSCAR A., Chicago.

1 water vessel of clay, 1 chipped stone blade.

KENNEDY, VERNON SHAW, Chicago.

37 specimens ethnological material — British East Africa.

PUTNAM, JAMES R., Chicago.

1 suit Japanese armor and case for same.

RYERSON, MARTIN A., Chicago.

4 blankets (Navaho), 4 tray baskets and 1 burden basket (Seminole Indians, Florida), 1 bow, 9 arrows (East India).

SCHAPPER, FERDINAND, Blue Island, Illinois.

1 shoulder blade — Blue Island, Illinois.

SHADWELL, BERTRAND, Chicago.

1 earthenware vessel — Arizona.

SKIFF, FREDERICK J. V., Chicago.

1 Navaho blanket (exchange).

WILSON, J. M., Chicago.

1 small stone axe head — Chicago.

## DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AYER, EDWARD E., Chicago.

14 specimens manila hemp — Philippine Islands.

BAKER, EDMUND, London, England.

1 tracing of plant.

BAKER MOSS COMPANY, Garrett, Indiana.

6 specimens peat products — Garrett, Indiana.

BARBER, C. M., Chicago.

1 herbarium specimen — Illinois.

BARTLETT, H. H., Cambridge, Massachusetts.

1 tracing of plant.

BEBB, ROBERT, Chicago.

1 herbarium specimen — Texas.

BERLIN ANALIN WORKS, Chicago.

4 specimens economic products.

BOTANIC GARDEN, Sydney, Australia.

69 carpologic specimens — Australia.

BOUTLOU, REV. A., Fairmont, West Virginia.

1 herbarium specimen — West Virginia.

12 herbarium specimens — West Virginia.

BOUTONNET, E., Kerba, Algeria.

13 specimens economic products.

BRANDEGEE, PROF. T. S., Berkeley, California.

1 herbarium specimen — Mexico.

1 herbarium specimen — Mexico.

BRITISH GUIANA COMMISSION, W. C. E., 1893, Chicago.

1 gourd of arrow poison — British Guiana.

BUREAU OF SCIENCE, Manila, P. I.

94 herbarium specimens — Philippine Islands (exchange).

CALDWELL, PROF. OTIS W., Chicago.

82 herbarium specimens — Cuba.

18 photographs of Cuban Cycadaceæ, 1 economic specimen — Cuba.

CALKINS, W. W., Berwyn, Illinois.

1 herbarium specimen — Berwyn, Illinois.

- 88 herbarium specimens — Berwyn, Illinois.
- 1 herbarium specimen — Illinois.
- 126 herbarium specimens — Illinois.
- 1 herbarium specimen — California.
- 5 herbarium specimens — Illinois.
- CANDOLLE, DR. CASIMIR DE, Geneva, Switzerland.
  - 1 tracing of plant.
- CHAMBERLAIN, PROF. C. J., Chicago.
  - 1 herbarium specimen — Indiana.
  - 1 herbarium specimen.
- CHASE, MRS. AGNES, Washington, D. C.
  - 1 herbarium specimen — Illinois.
- CONZATTI, PROF. CASSIANO, Oaxaca de Juarez, Mexico.
  - 362 herbarium specimens — Oaxaca, Mexico.
- COULTER, PROF. J. M., Chicago.
  - 2 economic specimens — United States and Australia.
  - 158 herbarium specimens — various localities.
- DEAM, CHAS. C., Bluffton, Indiana.
  - 207 herbarium specimens — Guatemala (exchange).
  - 1 herbarium specimen — Guatemala.
  - 2 herbarium specimens — Indiana.
- ESTACION CENTRAL AGRONOMICA, Santiago de las Vegas, Cuba.
  - 156 herbarium specimens — Cuba.
- FERRY, JOHN F., Chicago.
  - 30 herbarium specimens — Mound City, Illinois.
- FIELD MUSEUM OF NATURAL HISTORY.
  - Collated by J. M. Greenman:
    - 49 plant descriptions.
    - 1 tracing of plant.
    - 3 photographs of plants.
  - Collated by C. F. Millspaugh:
    - 1 specimen teak wood — Siam.
  - Collected by L. J. K. Brace:
    - 1243 herbarium specimens — Bahamas.
  - Collected by N. L. Britton and L. J. K. Brace:
    - 664 herbarium specimens — Bahamas.
  - Collected by C. F. Millspaugh and N. L. Britton:
    - 922 herbarium specimens, 45 economic specimens — Bahamas.
  - Collected by E. S. Riggs and J. B. Abbott:
    - 10 herbarium specimens — Wyoming.
  - Purchases:
    - 1810 herbarium specimens — Mexico.
    - 448 herbarium specimens — California, Lower California and Colorado.
    - 15000 herbarium specimens — various localities.
    - 100 drugs.
    - 698 herbarium specimens — various localities in the United States.
    - 17 reproductions of fruits.
    - 3 economic specimens — Illinois.



- 1197 herbarium specimens — Guadeloupe and Martinique.
- 151 herbarium specimens, 21 economic specimens — Palestine.
- 423 herbarium specimens — Guadeloupe and Martinique.
- 581 herbarium specimens — various localities.
- 639 herbarium specimens — California, Oregon and Washington.
- FRYE, PROF. T. C., Seattle, Washington.
  - 5 economic specimens — Washington.
- FULLER, GEORGE D., Chicago.
  - 9 herbarium specimens — Alberta.
- GATES, FRANK C., Ravenswood, Illinois.
  - 137 herbarium specimens — Illinois (exchange).
- GAUMER, DR. GEO. F., Izamal, Mexico.
  - 1 herbarium specimen — Yucatan.
- GRAY HERBARIUM, Harvard University, Cambridge, Massachusetts.
  - 1 herbarium specimen — Mexico.
- GREENMAN, J. M., Chicago.
  - 2 herbarium specimens — California.
  - 1 photograph of specimen.
- HALL, MRS. HERMAN J., Chicago.
  - 1 photo *Cyperus papyrus*, 1 paper *Cyperus papyrus* — Palermo, Sicily.
- HILL, PROF. E. J., Chicago.
  - 67 herbarium specimens — United States.
- INDIAN MUSEUM, THE, Calcutta, British India.
  - 28 economic products — British India (exchange).
- JORDAN, PROF. EDWIN OAKES, Chicago.
  - 2 herbarium specimens — Arizona.
- KELLERMAN, PROF. W. A., Columbus, Ohio.
  - 207 herbarium specimens — Guatemala.
- KLIPSTEIN & CO., A., Chicago.
  - 9 economic specimens.
- LAND, DR. W. J. G., Chicago.
  - 1 herbarium specimen — Indiana.
- LANSING, O. E. JR., Chicago.
  - 2 economic specimens — Indiana.
  - 27 herbarium specimens — Illinois and Indiana.
  - 1 tracing of *Coreopsis incisa*.
- MILLSPAUGH, BASIL S., Chicago.
  - 1 specimen *Saccharum officinale* "Piloncillo" — Mexico.
- MILLSPAUGH, C. F., Chicago.
  - 1 specimen nut.
  - 1 specimen slippery elm bark — Illinois.
  - 4 specimens of fruits — Ephraim, Wisconsin.
  - 2 herbarium specimens — Porto Rico.
  - 1 economic specimen.
- MILLSPAUGH, MRS. C. F., Chicago.
  - 10 economic specimens — Harbor Islands, Bahamas.
  - 1 specimen nut.

MISSOURI BOTANICAL GARDEN, St. Louis, Missouri.

623 herbarium specimens — Texas (exchange).

1 specimen pod corn.

2 specimens fruits — Dominica and St. Croix.

NATIONAL COMPANY, THE, Chicago.

1 specimen corn oil rubber.

NEWCOMBE, DR. C. F., Victoria, B. C.

3 herbarium specimens — Queen Charlotte Islands.

NEW YORK BOTANICAL GARDEN, New York City.

296 herbarium specimens — Porto Rico (exchange).

331 herbarium specimens — Jamaica (exchange).

735 herbarium specimens — various localities (exchange).

1 herbarium specimen — Antigua, West Indies.

NEW YORK TANNING EXTRACT CO., New York City.

4 specimens products — Argentine Republic.

PIPER, PROF. C. V., Washington, D. C.

1 herbarium specimen — Oregon.

ROYAL GARDENS, Kew, England.

37 economic specimens, 1 herbarium specimen — various localities (exchange).

SLOCOM, A. W., Chicago.

2 economic specimens — Michigan.

SMITH, HURON H., Chicago.

4 economic specimens — Winchester, Indiana.

2 economic specimens.

1 specimen fruit — Illinois.

SPARKS, MISS ETHEL C., Chicago.

1 rosary — Ephraim, Wisconsin.

TECHNOLOGICAL MUSEUM, Sydney, New South Wales.

160 economic specimens, 114 herbarium specimens — Australia (exchange).

TRACY, S. M., Biloxi, Mississippi.

29 herbarium specimens — Alabama, Florida and Texas.

TRELEASE, DR. WILLIAM, St. Louis, Missouri.

1 plant description.

2 plant descriptions and photograph.

TUTTLE, MRS. M., Chicago.

53 marine algæ — Santa Cruz, California.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

16 fragments of type specimens — Mexico.

47 herbarium specimens — Mexico (exchange).

186 herbarium specimens — various localities.

3 herbarium specimens — Mexico.

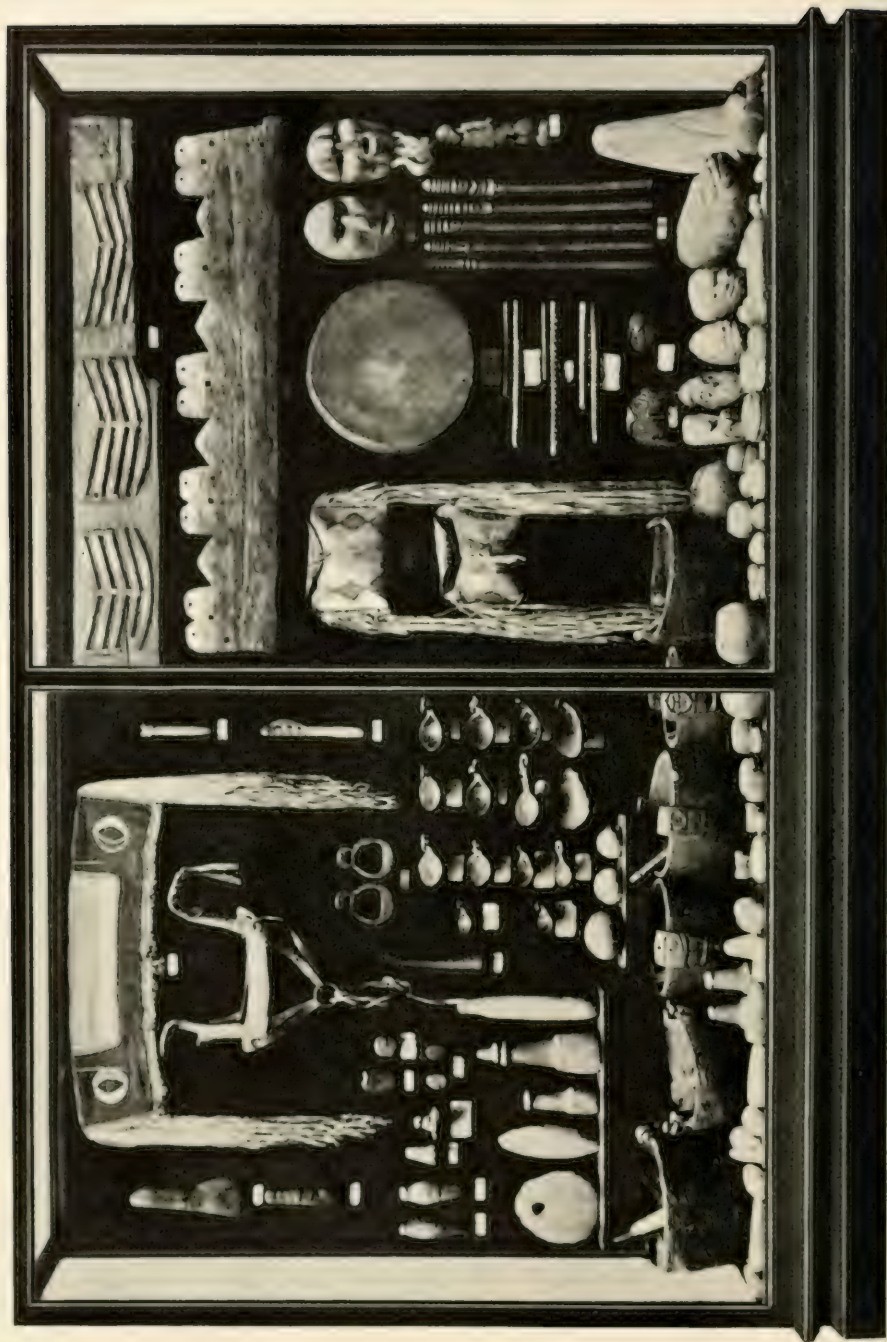
UNIVERSITY OF CHICAGO, Chicago.

51,606 specimens (Herbarium of University of Chicago (deposit)).

WARNER, MOORE & CO., Richmond, Virginia.

2 specimens of leaves — Virginia.

THE LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS



HALL 3. ETHNOLOGY OF THE WASCO INDIANS OF WASHINGTON.



## DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AMERICAN VANADIUM COMPANY, Pittsburgh, Pennsylvania.

5 specimens vanadium ores — Minasragra, Peru.

ATLAS SCHOOL SUPPLY COMPANY, Chicago.

7 relief maps 3' x 4' — various countries.

AYER, EDWARD E., Chicago.

1 large sheet crystallized copper — Cananea, Mexico.

BARTON, S. W., Chicago.

1 specimen crystallized calcite, 2 specimens analcite — Lake Superior.

CHICAGO COPPER REFINING CO., Blue Island, Illinois.

7 specimens ores and concretions — United States and Canada.

COHEN, M., Assuan, Egypt.

1 specimen bloodstone, 1 specimen peridot — Mt. Sinai, Egypt.

DAVIN, JAMES P., Chicago.

1 specimen calcareous tufa — Chicago.

DIVER, DANIEL, Deerfield, Wisconsin.

1 specimen fire clay — Canada.

DUNHAM, N. W., Somerville, Texas.

4 specimens fuller's earth — United States.

EMPIRE MINING COMPANY, Platteville, Wisconsin.

2 specimens lead and zinc ores — Platteville, Wisconsin.

ESSIG &amp; CO., F. J., Chicago.

4 specimens cut sodalite — Canada, 2 specimens cut azurite and malachite — Lyon County, Nevada (exchange).

FIELD MUSEUM OF NATURAL HISTORY.

Collected by O. C. Farrington:

37 specimens copper and iron ores, pitchstone, agate and thomsonite — Lake Superior.

2 specimens concretions, 4 specimens rocks — Montana.

Collected by C. F. Millsbaugh:

39 specimens beach pebbles illustrating attrition — Little Sister Bay, Wisconsin.

Collected by H. W. Nichols:

4 specimens worm borings in Potsdam sandstone, 1 specimen Potsdam sandstone — Crevitz, Wisconsin.

Collected by A. W. Slocum:

25 fossil crinoids — Burlington, Iowa.

3283 fossil shells (representing 36 species) Pleistocene marls of Little Traverse Bay, Michigan.

29 specimens concretions and pebbles, 860 specimens Devonian invertebrate fossils — Little Traverse Bay, Michigan.

Purchases:

1 relief map of United States.

1 seventeen pound individual Admire meteorite — Admire, Kansas.

1369 specimens fossil crinoids and blastoids — Burlington, Iowa; 4231 specimens invertebrate fossils — Mississippi Valley; 62 specimens fossil plants — Pennsylvania and Ohio.

- 2 specimens topaz and phenacite, 1 specimen phenacite on quartz — North Chatham, New Hampshire.
- 258 specimens invertebrate fossils, 17 specimens clay stones — New York and Vermont.
- 50 specimens rocks of the iron and copper districts of Lake Superior.
- 1 specimen vanadinite — Magdalena, New Mexico.
- GAMBA, F. PEREIRA, Pasto, U. S. of Colombia.
- 4 specimens emerald and aquamarine, 1 specimen parisite, 8 specimens gold ore — U. S. of Colombia.
- GEOLOGICAL SURVEY OF CANADA, Ottawa, Canada.
- 1 cast of Iron Creek meteorite (exchange).
- GEOLOGICAL SURVEY OF INDIA, Calcutta, India.
- 1 specimen, 6.6 grams, Goalpara meteorite (exchange).
- HENDERSON, JUNIUS, Boulder, Colorado.
- 20 specimens fossil shells — Colorado (exchange).
- JOHNSTON, W. M., Chicago.
- 9 specimens ores and minerals.
- 4 specimens native copper — Copper River District, Alaska.
- KUNSTMAN, ROBERT, Little Rock, Arkansas.
- 1 specimen soapstone, 1 specimen talc, 1 specimen pulverized talc — Saline County, Arkansas.
- MILLAR, AUSTIN Q., Minneapolis, Minnesota.
- 1 specimen kimberlite — Elliott County, Kentucky.
- 7 specimens diamond-bearing sand and associated materials — Pike County, Arkansas.
- MORONEY, JOHN J., Chicago.
- 19 specimens ores, clays and briquettes — United States.
- 1 specimen tripoli — The Dalles, Oregon.
- NARRAWAY, J. E., Ottawa, Canada.
- 32 specimens fossils — Canada (exchange).
- PEARSE, A. S., Chicago.
- 1 fossil bryozoan, 6 fossil shells — Chicago and Dresden, New York.
- POHNDORF, A. P., Butte, Montana.
- 11 specimens smoky quartz — Silver Star Mine, Butte, Montana.
- RING, H. A., Nome, Alaska.
- 25 specimens garnets, 1 specimen black sand — Nome, Alaska.
- TRISTAN, PROF. J. FID, San Jose, Costa Rica.
- 8 specimens minerals — Costa Rica.
- WARD, MRS. L. A. C., Chicago.
- 1 specimen Santa Rosa meteorite (1933 grams) (exchange).
- WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, New York.
- 1 specimen Elm Creek meteorite (382 grams) (exchange).
- WERNER, ALEX., Chicago.
- 19 specimens fossil shells — Nome, Alaska.
- WILEY, E. N., Chicago.
- 1 specimen fossil coral — Charlevoix, Michigan.
- WOOLF, R. H., Chicago.
- 1 specimen rottenstone, 1 specimen paint clay — Fayette County, Iowa.

## DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AUTOMATIC BUTTON COMPANY, Muskatine, Iowa.

1 series of shells showing the various stages in the manufacture of  
pearl buttons.

ABBEY, E. S., Chicago.

1 moth — Chicago.

BARBER, C. M., Chicago.

1 garter snake — Oak Park, Illinois.

3 water bugs — Laporte, Indiana.

BEAN, DR. TARLETON H., New York City.

1 frog, 3 salamanders — Smithtown, Long Island.

BEER, EMIL, Chicago.

2 butterflies — Palos Park, Illinois.

BUCHANAN, W. P., Chicago.

1 tarantula.

BUREAU OF FISHERIES, Washington, D. C.

33 fishes — Alaska.

BURLEIGH, N. A., Chicago.

6 beetles — Chicago.

CALVIN, DAVID, Chicago.

1 Carolina rail — Chicago.

CARPENTER, C. H., Chicago.

3 dragon flies — Chicago.

CARR, MALEN K., Chicago.

1 tarantula — San Antonio, Texas.

CHAVES, DIOCLESIANA, Managua, Nicaragua.

21 toads, 3 frogs, 30 lizards, 3 snakes — Nicaragua.

70 fishes — Nicaragua.

CHATHAM, DR., Olive Branch, Illinois.

1 beetle.

CHOPE, E. B., Chicago.

16 beetles — New York and New Jersey.

COALE, H. K., Highland Park, Illinois.

9 bird skins — Australia (exchange).

1 hawk, 1 plover — Hungary.

DEARBORN, N., Chicago.

1 moth — Chicago.

DERBY, WILLIAM M., Chicago.

1 hybrid duck — English Lake, Indiana.

2 shoveller ducks, 1 wood duck — English Lake, Indiana.

DEWEY, C. L., Chicago.

1 bull snake — Joliet, Illinois.

DITZEL, H. F., Chicago.

1 water beetle.

DOHMEN, U. A., Chicago.

1 bumblebee — Chicago.

DUNLAP, C. R., Goldfield, Nevada.

1 shield-back grasshopper — Goldfield, Nevada.

FERRY, J. F., Chicago.

1 gray squirrel — Lake Forest, Illinois.

1 fox squirrel, 1 woodchuck, 1 hoary bat — Lake Forest, Illinois.

1 grasshopper — Beach, Illinois.

FIELD MUSEUM OF NATURAL HISTORY.

Collected by C. E. Akeley:

1 snake — Joliet, Illinois.

Collected by C. M. Barber:

100 fishes — South Chicago, Illinois.

94 specimens beetles, bugs, centipedes, etc.,— Olive Branch and Cairo, Illinois.

1 frog — Chicago.

28 salamanders, 52 toads, 25 frogs, 44 snakes, 9 lizards, 1 turtle — Olive Branch, Illinois.

1 large alligator snapping turtle — Cairo, Illinois.

11 turtles, 4 lizards, 29 snakes, 47 frogs, 128 toads, 21 salamanders — Olive Branch, Illinois.

1 white footed mouse — Olive Branch, Illinois.

1 turtle, 5 toads, 7 snakes, 6 frogs, 1 salamander — Waukegan, Illinois.

Collected by E. B. Chope:

1227 millipedes, centipedes, spiders, larvæ, bugs, grasshoppers, flies, bees, wasps and beetles — Chicago.

Collected by N. Dearborn:

2 salamanders and young embryos — Tilton, New Hampshire.

10 snakes — Longwood, Illinois.

Collected by C. L. Dewey:

10 fishes — Joliet, Illinois.

Collected by J. M. Ferry:

1 gray squirrel — Olive Branch, Illinois.

169 bird skins — Illinois and Indiana.

3 ducks, 7 quails, 4 blackbirds, 12 woodpeckers, 10 sparrows, 43 warblers, 12 flycatchers, 15 wrens and chickadees, 17 vireos, 11 others — Southern Illinois.

1 duck, 1 heron, 2 hawks, 6 snipes, 2 cuckoos, 5 flycatchers, 2 canager and vireo, 6 sparrows, 12 warblers, 1 chickadee, 3 thrushes — Lake County, Illinois.

Collected by William J. Gerhard:

454 dragonflies, grasshoppers, roaches, bugs, butterflies, moths, beetles, flies, bees, wasps and parasites, etc.,— Illinois and Indiana.

614 dragon flies, nerve-wings, grasshoppers, bugs, butterflies, moths, beetles, flies, bees, wasps, parasites, etc.—Illinois and Indiana.

1 gopher snake — Palos Park, Illinois.

Collected by E. Heller:

128 mammal skins, 23 mammals in formalin — Southern Illinois.



- 1 water beetle, 9 fleas, 24 ticks — Illinois.
- 1 blind fish — Golconda, Illinois.
- 16 lizards, 3 snakes, 1 toad, 1 frog — Southern Illinois.
- 40 turtles — Golconda, Illinois.
- 110 specimens of mammals — Illinois.
- 36 turtles — Riverside, California.
- 40 rodent skins — California.
- 1 lizard — Riverside, California.
- 125 rodent skins, 25 alcoholic rodents — Northern Wisconsin.
- 1 pileated woodpecker — Ozark, Illinois.
- 1 ruffed grouse, 1 pileated woodpecker, 5 hairy woodpeckers — Wisconsin.

Collected by S. E. Meek:

- 200 fishes — Wolf Lake and Lake George, Indiana.

Collected by C. F. Millspaugh:

- 314 shells, 1 tree toad — Bahamas.
- 50 weevils.

Collected by H. S. Swarth:

- 4 beetles — Joliet, Illinois.

Collected by British East African Expedition, 1905-1907:

- 6 specimens Cape buffalo — Kenya Province and Kijabe.
- 8 specimens lion — Molo and Athi Plains.
- 6 specimens eland — Kenya Province and Athi Plains.
- 6 specimens topi — Molo.
- 7 specimens wildebeeste — Athi Plains.
- 10 specimens and skull Jackson's hartebeeste — Molo.
- 10 specimens Coke's hartebeeste — Athi Plains.
- 2 specimens hartebeeste — Naivasha and Kijabe.
- 4 specimens Neuman's hartebeeste — Nakuro and Elementeita.
- 6 specimens and skull Dafassa's waterbuck — Elementeita.
- 7 specimens waterbuck — Kenya Province and Athi Plains.
- 13 specimens impalla — Athi Plains and Elementeita.
- 16 specimens Grant's gazelle — Athi Plains.
- 16 specimens Thompson's gazelle — Athi Plains.
- 11 specimens bushbuck — Elementeita, Aberdare Mountains and Nairobi.
- 13 specimens klipspringer — Athi Plains.
- 9 specimens reedbuck — Molo and Elementeita.
- 12 specimens Chanler's reedbuck — Athi Plains.
- 10 specimens duiker — Aberdare Mountains, Elementeita, Kenya Province and Molo.
- 9 specimens Zanzibar antelope — Mt. Kenya and Kijabe.
- 10 specimens steinbok — Athi Plains, Molo and Kenya Province.
- 8 specimens dik dik — Elementeita and Kijabe.
- 7 specimens baboon — Athi Plains, Gil Gil, Aberdare Mountains and Kijabe.
- 24 specimens monkeys — Kijabe, Athi Plains, Tana River.
- 5 specimens zebra — Athi Plains.

- 3 specimens chetah — Athi Plains.
- 2 specimens leopard — Aberdare Mountains and Athi Plains.
- 5 specimens serval — Aberdare Mountains, Molo, Athi Plains and Elementeita.
- 9 specimens springhaas — Elementeita and Athi Plains.
- 14 specimens jackal — Athi Plains, Kijabe and Elementeita.
- 26 specimens genet — Mt. Kenya, Voi, Molo, Athi Plains, Kijabe and Elementeita.
- 18 specimens mongoose.— Athi Plains, Kijabe, Molo, Naivasha, Mt. Kenya, and Aberdare Mountains.
- 41 specimens hyrax — Athi Plains, Kijabe, Naivasha, Gil Gil, Elementeita, Molo and Mt. Kenya.
- 3 specimens wild dog — Athi Plains and Voi.
- 6 specimens wart hog — Elementeita, Athi Plains and Kenya Province.
- 1 specimen rhinosceros — Kijabe.
- 2 specimens hippopotamus — Elementeita.
- 1 specimen porcupine — Athi Plains.
- 1 specimen ratel — Elementeita.
- 1 specimen striped hyena— Voi.
- 8 specimens Shamba rat — Mt. Kenya.
- 1 specimen and 1 neck and head giraffe — Athi Plains and Voi.
- 2 specimens and 1 skull elephant — Mt. Kenya and Aberdare Mountains.
- 1 specimen galago — Voi.
- 2 specimens snakes — Elementeita and Voi.
- 693 specimens bird skins.
- 1 specimen ostrich.
- 252 specimens fish.
- 265 specimens toads, frogs, lizards, chameleons, snakes and turtles.
- 720 specimens small mammals.
- 353 specimens insects.
- 1 rhinosceros horn, 1 set eggs Secretary bird.
- 1 skeleton Cape buffalo, 1 skeleton lion, 1 skeleton giraffe, 1 skeleton Jackson's hartebeste, 1 skeleton topi, 1 skeleton Grant's gazelle, 1 skeleton Chanler's reedbuck, 2 skeletons klipspringer, 1 skeleton Zanzibar antelope, 1 skeleton baboon, 2 skeletons monkey, 1 skeleton springhaas, 1 skeleton serval, 1 skeleton genet, 1 skeleton mongoose, 2 skeletons hyrax, puff adder, 4 specimens flamingo.
- 1 death mask of buffalo, zebra, Jackson's hartebeste, Coke's hartebeste, eland, impalla, steinbok, duiker, baboon, hyrax, 2 of topi, 3 of gazelle, 2 of bushbuck, 2 of klipspringer, 2 of monkey, 1 entire chetah.

Purchases:

- 37 birdskins — various localities.
- 2 wildeats, 1 skunk.
- 18 bird skins — Philippine Islands.
- 1 female passenger pigeon.
- 125 bird skins — Central and South America.

- 5 bird skins — California.
- 2 bird skins — Philippine Islands.
- 1 alligator — Florida.
- 31 bird skins — Costa Rica.
- 1 egg of brant goose — McGary Island, Greenland.
- 7 bird skins — various localities.
- 1 gorilla skin and skeleton — West Africa.
- 4000 shells — various localities.
- 1 Martha's Vineyard prairie hen — Massachusetts.
- 1 goose, 1 duck, 3 night-hawks, 1 sparrow — various localities.
- FISCHER, E. J., Chicago.
  - 10 mammal skins, 5 mammal skeletons — Luxemburg, Iowa.
  - 2 varying hares, 5 meadow mice, 1 spermophile — Luxemburg, Iowa.
- FIX, WILLIAM J., Philadelphia, Pa.
  - 1 beetle.
- GARDNER, C. A., Chicago.
  - 1 saw fly — Chicago.
- GOODRICH, A. W., Chicago.
  - 1 water dog — Little Traverse Bay, Michigan.
- GOOS, MISS EMMA, Davenport, Iowa.
  - 1 series shells illustrating the manufacture of pearl buttons.
- GRINNELL, J., Pasadena, California.
  - 5 chipmunks, 1 golden-headed spermophile, 5 pocket gophers, 2 meadow voles, 1 wood rat — California (exchange).
- GUERET, E. N., Chicago.
  - 2 garter snakes, 2 water snakes — Hamlin Lake, Michigan.
  - 48 specimens moths, beetles, bugs, crickets, spiders, parasites, etc., — various localities.
- HENDERSON, J., Boulder, Colorado.
  - 11 shells — Colorado.
- HILL, C., Chicago.
  - 2 snakes, 1 salamander — Clark Junction, Indiana.
- HOWELL, W., Chicago.
  - 1 striped gopher — Marquette Park, Chicago.
- LANSING, O. E. Jr., Chicago.
  - 1 beetle — Chicago.
- MARSH, DWIGHT, Hugo, Colorado.
  - 4 rattlesnakes — Colorado.
- McINTYRE, G., Walworth, Wisconsin.
  - 68 moths — Walworth, Wisconsin.
- MEEK, S. E., Chicago.
  - 1 bug — Chicago.
- MILLSPAUGH, C. F., Chicago.
  - 36 spiders — Ephraim, Wisconsin.
- MUNZNER, H., Chicago.
  - 27 spiders, grasshoppers, moths, beetles, flies, bees and parasites — Illinois.

NATIONAL MUSEUM OF COSTA RICA, San Jose, Costa Rica.

26 fishes — Costa Rica.

9 fishes — Costa Rica.

42 fishes — Costa Rica.

16 fishes — Costa Rica.

7 lizards — Costa Rica.

39 fishes — Costa Rica.

19 fishes — Costa Rica.

NATIONAL MUSEUM, PARIS, FRANCE.

131 fishes — Costa Rica (exchange).

O'SHAUGHNESSY, J. P., Chicago.

1 hair worm — Chicago.

PRICE, MRS. ABNER, Chicago.

41 mounted birds — Illinois and Indiana.

REED, MISS, Honolulu.

160 shells — Honolulu.

RING, H. A., Chicago.

2 sponges, 2 hydroids — Cape Nome, Alaska.

ROSENBAUM, W. M., Chicago.

1 humming bird moth — Chicago.

SMITH, CASSIUS, Chicago.

3 beetles — Mexico.

SWARTH, H. S., Chicago.

1 moth — Chicago.

TIEMAN, B., Chicago.

1 beetle, 3 flies — Chicago.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

90 fishes — Philippine Islands.

WARKE, MARGARET, Chicago.

1 salamander — Chicago.

WISCONSIN NATURAL HISTORY SURVEY, Madison, Wisconsin.

9 fishes — Lake Pekin, Wisconsin.

WOLCOTT, A. B., Chicago.

1 grasshopper, 7 bees and parasites, 3 flies — Palos Park, Illinois.

WOODRUFF, F. M., Chicago.

1 lizard.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

DORSEY, GEORGE A., Chicago.

15 negatives of landscapes and general views — Peru.

FIELD MUSEUM OF NATURAL HISTORY.

Made by C. E. Akeley:

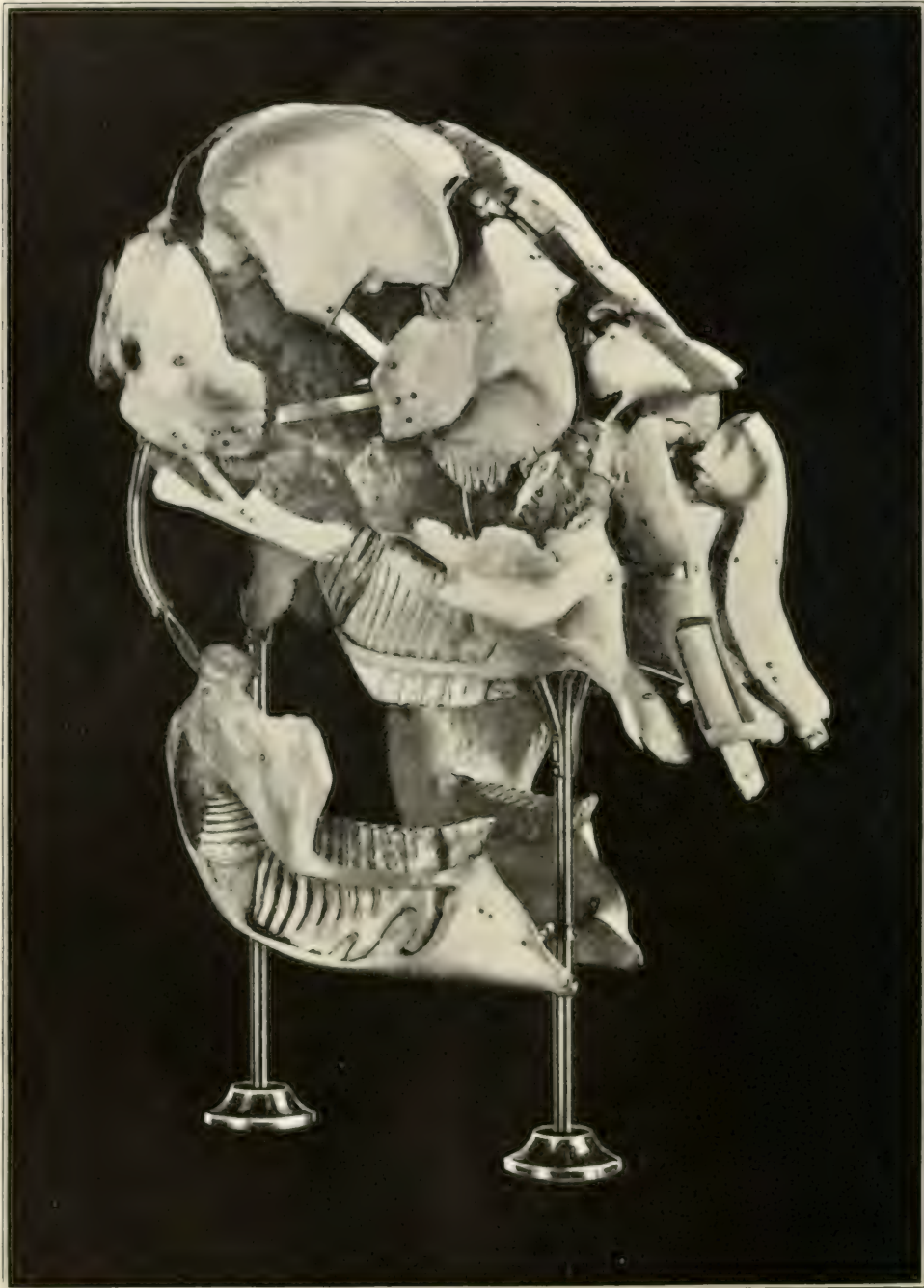
623 negatives of general views, portraits, etc.— British East Africa.

Made by C. H. Carpenter:

3,777 negatives, 5,818 prints, 731 lantern slides, 85 enlargements, 274 negatives developed.



THE LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS





SKULL OF INDIAN ELEPHANT (*Elephas maximus*) ABOUT 4½ YEARS OF AGE.

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The cranial bones are entirely disarticulated, spaced, and mounted in their relative positions for study purposes. The cranium is hinged, and may be tipped back to facilitate the study of the sphenoid and basioccipital bones. The two superior maxillary bones rotate, exposing the palatine and dental surface.

The superior and inferior maxillary on the right side are cut away, exposing the roots of the teeth, displaying their character, development, and succession.



Made by O. C. Farrington:

24 negatives of landscapes.

Made by J. F. Ferry:

74 negatives of general views and bird nests.

Made by E. Heller:

8 negatives, general views.

Made by C. F. Millspaugh:

54 negatives of landscapes and general views — Bahamas.

Made by H. H. Smith:

12 negatives of trees — Chicago.

Purchases:

98 prints of Sun Dance at Fort Belknap, Montana.

19 prints of Hupa Indians — Arcata, California.

## THE LIBRARY.

### BOOKS, PAMPHLETS, AND SERIALS.

(ACCESSIONS ARE BY EXCHANGE UNLESS OTHERWISE DESIGNATED.)

ACIREALE REALE ACCADEMIA DI SCIENZE, Acireale, Italy.

Rendiconti e memorie, ser. 3a, v. 1-4, 1901-1904.

ADAMS, FRANK D., Montreal, Canada.

3 pamphlets.

ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Alabama.

Bulletin, current numbers (gift).

ALABAMA GEOLOGICAL SURVEY, Montgomery, Alabama.

Bulletin, no. 9.

ALASKA AGRICULTURAL EXPERIMENT STATION, Sitka, Alaska.

Annual report, 1906.

Bulletin, current numbers (gift).

ALBANY MUSEUM, Grahamstown, South Africa.

Records, v. 2, pt. 1.

ALLEN, GLOVER M., Cambridge, Massachusetts.

2 pamphlets.

AMBROSETTI, JUAN B., Buenos Aires, Argentina.

1 pamphlet.

AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Massachusetts.

Proceedings, current numbers.

AMERICAN ANTIQUARIAN SOCIETY, Boston, Massachusetts.

Proceedings, v. 18, pts. 1-2.

AMERICAN CHEMICAL JOURNAL PUBLISHING COMPANY, Baltimore, Maryland.

Journal, current numbers.

AMERICAN FOLK-LORE SOCIETY, Cambridge, Massachusetts.

Journal, current numbers.

AMERICAN FORESTRY ASSOCIATION, Washington, D. C.

Forestry and irrigation, current numbers.

AMERICAN GEOGRAPHICAL SOCIETY, New York City.

Bulletin, current numbers.

AMERICAN INSTITUTE OF HOMEOPATHY, New York City.

Transactions, vs. 1-2, 1906 (gift).

AMERICAN INSTITUTE OF MINING ENGINEERS, New York City.

Officers, members, rules, etc., 1907.

Transactions, v. 37.

2 pamphlets.

AMERICAN INVENTOR, New York City.

Journal, v. 16, nos. 1-2.

AMERICAN LUMBERMAN, Chicago.

Annual statistics, no. 34, 1906 (gift).

AMERICAN MEDICAL ASSOCIATION, Chicago.

Third annual conference, 1907 (gift).

AMERICAN MINING CONGRESS, Denver, Colorado.

Papers and addresses, annual meeting, 1906.

AMERICAN MUSEUM OF NATURAL HISTORY, New York City.

Annual report, 1906.

Anthropological papers, v. 1, pt. 3.

Bulletin, v. 18, pt. 4; v. 22.

Journal, current numbers.

Memoirs, v. 11, pt. 2.

63 pamphlets.

AMERICAN ORIENTAL SOCIETY, New Haven, Connecticut.

Journal, v. 27, pt. 2; v. 28, pt. 1.

AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia.

Proceedings, current numbers.

AMERICAN VANADIUM COMPANY, Pittsburg, Pennsylvania.

3 blue prints.

6 pamphlets (gift).

AMES BOTANICAL LABORATORY, Easton, Massachusetts.

Contributions, nos. 4, 6.

7 separates.

AMSTERDAM, K. AKADEMIE VAN WETENSCHAPPEN, Amsterdam,  
Netherlands.

Proceedings, v. 9.

Verhandlingen, v. 13, nos. 1-3.

Verslagen, v. 15.

AMSTERDAM UNIVERSITEIT BIBLIOTHEEK, Amsterdam, Netherlands.

Aanwinsten.

ANGERS, SOCIÉTÉ NATURELLE D'AGRICULTURE, SCIENCES ET  
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London.

Journal, current numbers.

ARCHITECTS' AND BUILDERS' MAGAZINE COMPANY, New York City.

Magazine, current numbers.

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Archiv, v. 10.
- ARIZONA AGRICULTURAL EXPERIMENT STATION, Tucson, Arizona.  
Annual report, no. 17, 1906.  
Bulletin, current numbers.
- ARKANSAS AGRICULTURAL EXPERIMENT STATION, Fayetteville, Arkansas.  
Bulletin, current numbers (gift).
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.  
Memoirs, v. 2, nos. 1-4.  
Proceedings, current numbers.
- ASSOCIATION OF ENGINEERING SOCIETIES, Philadelphia.  
Journal, current numbers.
- ATKINSON, GEORGE F., Ithaca, New York.  
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Bericht, 1906.
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Memoirs, v. 4, no. 10.  
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Report, 1906.  
Special catalogue, v. 2, pt. 2.
- BARRELL, JOSEPH, New Haven, Connecticut.  
1 reprint.
- BASEL NATURFORSCHENDE GESELLSCHAFT, Basel, Switzerland.  
Verhandlungen, v. 18, pt. 3; v. 19, pt. 1.
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Report and proceedings, 1905-6.
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Catalogue, 1906-7.
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Meeresfauna van Bergen, vs. 1-3.
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 Veröffentlichte, v. 12.
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 Sitzungsberichte, current numbers.
- BERLIN. VEREIN FÜR VOLKSKUNDE, Berlin, Germany.  
 Zeitschrift, current numbers.
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 10 dissertations.
- BERNICE PAUAAHI BISHOP MUSEUM, Honolulu, H. I.  
 Occasional papers, v. 3, no. 1.
- BIRMINGHAM NATURAL HISTORY AND PHILOSOPHICAL SOCIETY, Birmingham, England.  
 Proceedings, v. 12, no. 1.
- BLACK DIAMOND COMPANY, Chicago.  
 Journal, current numbers (gift).
- BOMBAY ANTHROPOLOGICAL SOCIETY, Bombay, India.  
 Journal, current numbers.
- BONN. NATURHISTORISCHER VEREIN, Bonn, Germany.  
 Sitzungsberichte, 1906.  
 Verhandlungen, vs. 1-63, 1844-1906.
- BORDEAUX SOCIÉTÉ LINNÉENNE, Bordeaux, France.  
 Procès-verbaux, 1906.
- BORDELEBEN, KARL, Jena, Germany.  
 2 pamphlets.
- BOSTON BOOK COMPANY, Boston, Massachusetts.  
 Bulletin, current numbers.
- BOSTON MUSEUM OF FINE ARTS, Boston, Massachusetts.  
 Annual report, no. 31, 1906.  
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 1 pamphlet.
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- BRANDSTETTER, RENWARD, Lucerne, Switzerland.  
1 pamphlet (gift).
- BRAZIL, VITAL, Sao Paulo, Brazil.  
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Abhandlungen, Bd. 19, heft 1.
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- BRITISH COLUMBIA LEGISLATIVE ASSEMBLY, Victoria, B. C.  
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Annual return, 1906-7.  
Catalogue lepidoptera phalaenae, v. 6.  
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- BROGGER, W. C., Christiania, Norway.  
Die mineralien der Südnorwegischen granitpegmatitgänge.  
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- BROOKLYN INSTITUTE OF ARTS AND SCIENCES, Brooklyn, New York.  
Museums' news, current numbers.  
Prospectus, 1907-8.  
Report of the museums, 1906.  
Science bulletin, current numbers.  
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DES BEAUX-ARTS, Brussels, Belgium.  
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Travaux de l'Institut de Sociologie, Notes and mémoires, fasc. 3-4.

BRUSSELS. MUSÉE ROYALE D'HISTOIRE NATURELLE, Brussels, Belgium.

Mémoires, t. 3.

BRUSSELS. SOCIÉTÉ D'ARCHÉOLOGIE, Brussels, Belgium.

Annales, current numbers.

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BRUSSELS. SOCIÉTÉ ROYALE DE BOTANIQUE, Brussels, Belgium.

Bulletin, vs. 35-43, 1897-1905.

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Bulletin, current numbers.

BRYN MAWR COLLEGE, Bryn Mawr, Pennsylvania.

Monographs, reprint ser. v. 6.

Program, 1907-8.

Views of academic building.

BUENOS AIRES. DEUTSCHE AKADEMIE VEREINIGUNG, Buenos Aires.

Brazil.

Veröffentlichungen, 1899-1904.

BUENOS AIRES. MUSEO NACIONAL, Buenos Aires, Brazil.

Anales, ser. 3. ts. 1, 8.

BUFFALO PUBLIC LIBRARY, Buffalo, New York.

Annual report, no. 10, 1906.

BUFFALO SOCIETY OF NATURAL SCIENCE, Buffalo, New York.

Bulletin, v. 7, no. 4.

BUITENZORG. AGRICULTURAL EXPERIMENT STATION, Buitenzorg, Java.

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CALCUTTA. ROYAL BOTANIC GARDEN, Calcutta, India.

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Maps and registers of 16 counties.

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- CARPENTER, G. H., Dublin, Ireland.  
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Journal, current numbers.

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CHARLEVILLE. CHAMBRE DE COMMERCE, Charleville, France.

Procès-verbaux des séances, 1906.

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Annual report, no. 34, 1906.

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President's report, 1905-6.

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18 dissertations.

1 pamphlet.

CHILE. BIBLIOTECA NACIONAL, Santiago de Chile.

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CINCINNATI MUSEUMS ASSOCIATION, Cincinnati, Ohio.

Annual report, no. 26, 1906.

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Studies, current numbers.

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Publications, v. 2, pts. 1-5.

- CLAUSTHAL. K. BERGAKADEMIE, Clausthal, Germany.  
Festschrift, 1907.  
Program, 1907-8.
- CLEVELAND PUBLIC LIBRARY, Cleveland, Ohio.  
Annual report, no. 38, 1906.  
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- COLBY COLLEGE, Waterville, Maine.  
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Catalogue, 1906-8.
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13, nos. 116-118, 120-125, 127-130; v. 17, nos. 1-9.  
Catalogue, 1906-7.
- CONNECTICUT ACADEMY OF ARTS AND SCIENCES, New Haven, Connecticut.  
Transactions, v. 12, v. 13, pp. 1-297.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION, New Haven,  
Connecticut.  
Annual report, no. 30, 1906.  
Bulletin, current numbers.



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Report, 1905-6.

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COOK, M. T., New York City.

10 pamphlets.

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Annual report, no. 48, 1907.

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Videnskabelige, 1906.

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Communications: géologiques, no. 1.

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CORNELL UNIVERSITY, Ithaca, New York.

Librarian's report, 1900-6.

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CRAGIN, F. W., Colorado Springs, Colorado.

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Études sur les mammifères fossiles de Sausan, par Filhol.

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Memoirs of geological survey of England and Wales, 1875, 1882.

CZERNOWITZ. K. K. FRANZ-JOSEPHS-UNIVERSITÄT, Czernowitz, Austria.

7 reports.

DARMSTADT VEREIN FÜR ERDKUNDE, Darmstadt, Germany.

Notizblatt, 1906.

DAVENPORT ACADEMY OF SCIENCES, Davenport, Iowa.

Proceedings, v. 11, pp. 1-124.

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Bulletin, current numbers (gift).

DELAWARE COUNTY INSTITUTE OF SCIENCE, Media, Pennsylvania.

Proceedings, current numbers.

DENISON UNIVERSITY, Granville, Ohio.

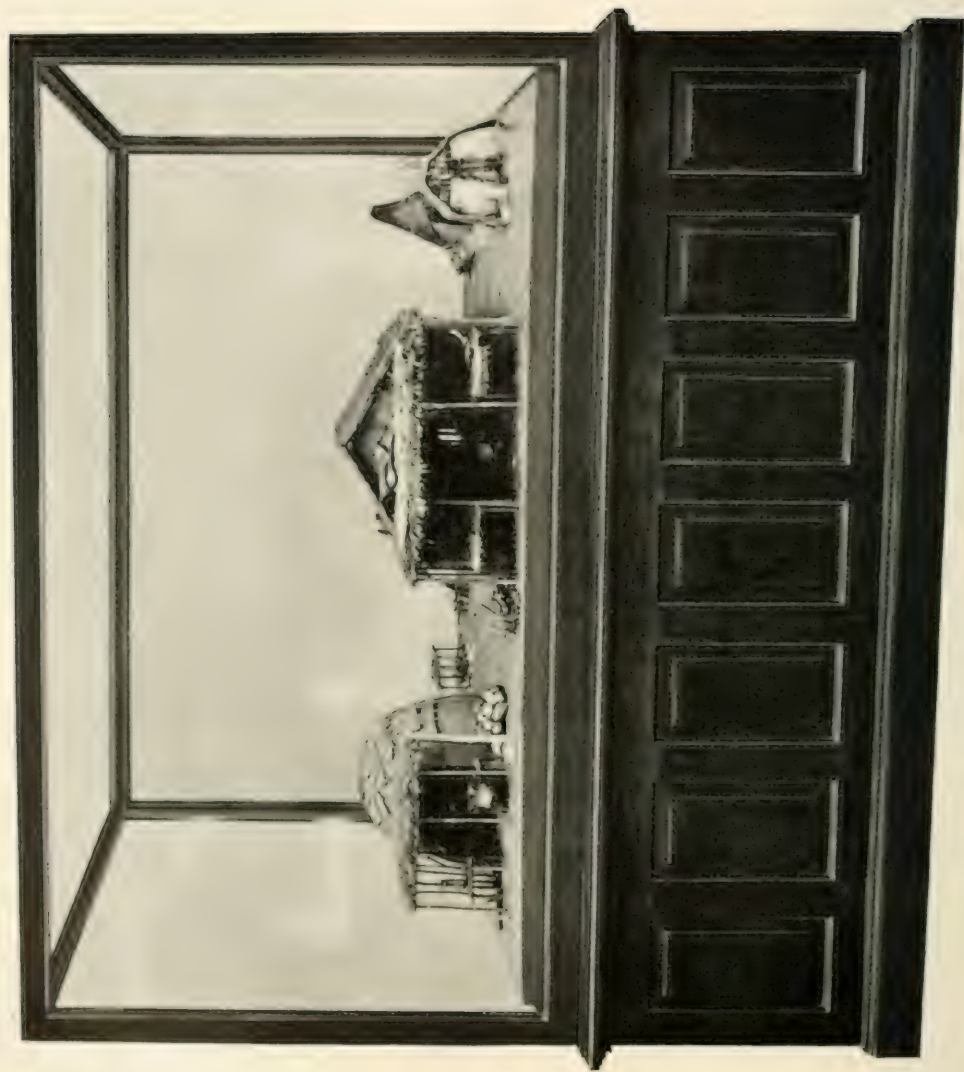
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HALL 2. MINIATURES OF TYPICAL STRUCTURES OF SAUK INDIANS IOWA.

- DETROIT PUBLIC LIBRARY, Detroit, Michigan.  
Annual report, no. 42, 1906.  
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- DEUTSCHE GEOLOGISCHE GESELLSCHAFT, Berlin, Germany.  
Monatsschrift, vs. 3-7.  
Zeitschrift, v. 58, 59; nos. 1-3.
- DEWIT, ALBERT, Bruxelles, Belgium.  
1 pamphlet (gift).
- DIAL PUBLISHING COMPANY, Chicago.  
Dial, current numbers.
- DIXON, ROLAND B., Cambridge, Massachusetts.  
4 reprints.
- DONALDSON, HENRY H., Philadelphia, Pennsylvania.  
3 pamphlets.
- DOUGLASS, EARL.  
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- DRESDEN. GENERAL DIREKTION DER KÖNIGLICHEN SAMMLUN-  
GEN, Dresden, Germany.  
Bericht über die verwaltung und vermehrung der Königlichen Samm-  
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Report of the director, 1905-6, 1906-7.  
8 guides.
- DUC DE LOUBAT, Paris, France.  
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- EAKLE, ARTHUR T., Berkeley, California.  
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- EDINBURGH FIELD NATURALISTS' AND MICROSCOPICAL SOCIETY,  
Canterbury, England.  
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- EDINBURGH. GEOLOGICAL SOCIETY, Edinburgh, Scotland.  
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- EDINBURGH. ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.  
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- EDINBURGH ROYAL SOCIETY, Edinburgh, Scotland.  
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- ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA, Pittsburg,  
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- ENOCH PRATT FREE LIBRARY, Baltimore, Maryland.  
 Bulletin, current numbers.  
 Report, no. 21, 1906.
- ESSEX INSTITUTE, Salem, Massachusetts.  
 Collections, quarterly.
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 Annual report, no. 34, 1906-7.
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Bulletin, current numbers.

Circulars, current numbers.

Bureau of Entomology:

Bulletin, current numbers.

Circulars, current numbers.





## POD, OR REVERTED CORN.

- A. A complete ear.  
 B. The tip of an ear.  
 C. A basal part of the ear showing the attachment of the glumes to the cob.  
 D. A basal part of the ear showing the attachment of the glumes to the cob.  
 E. A basal part of the ear showing the attachment of the glumes to the cob.  
 F. A basal part of the ear showing the attachment of the glumes to the cob.  
 G. A basal part of the ear showing the attachment of the glumes to the cob.  
 H. A basal part of the ear showing the attachment of the glumes to the cob.

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- Bureau of Soils:
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- WILLIAMS, HENRY S., Ithaca, New York.  
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- WILLIAMS COLLEGE, Williamstown, Massachusetts.  
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Mitteilungen botanischen museum, v. 28.

6 inaugural dissertations.

## ARTICLES OF INCORPORATION.

### STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSSEN, *Secretary of State.*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

*Whereas*, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D., 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

*Now, therefore*, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

*In Testimony Whereof*, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,

*Secretary of State.*

[SEAL.]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned, citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science, and History.

3. The management of the aforesaid Museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black, and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, } ss.  
COOK COUNTY. }

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

#### CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the Corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

#### CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the Corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November, 10, 1905, in the office of the Secretary of State for Illinois.

## AMENDED BY-LAWS.

(JANUARY 28, 1907).

## ARTICLE I.

## MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons, and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be sufficient grounds for the forfeiture of an annual membership.

This said annual membership shall entitle the member to:

*First.*— Free admittance for the member and family, to the Museum on any day.

*Second.*— Ten tickets every year, admitting the bearer to the Museum on pay days.

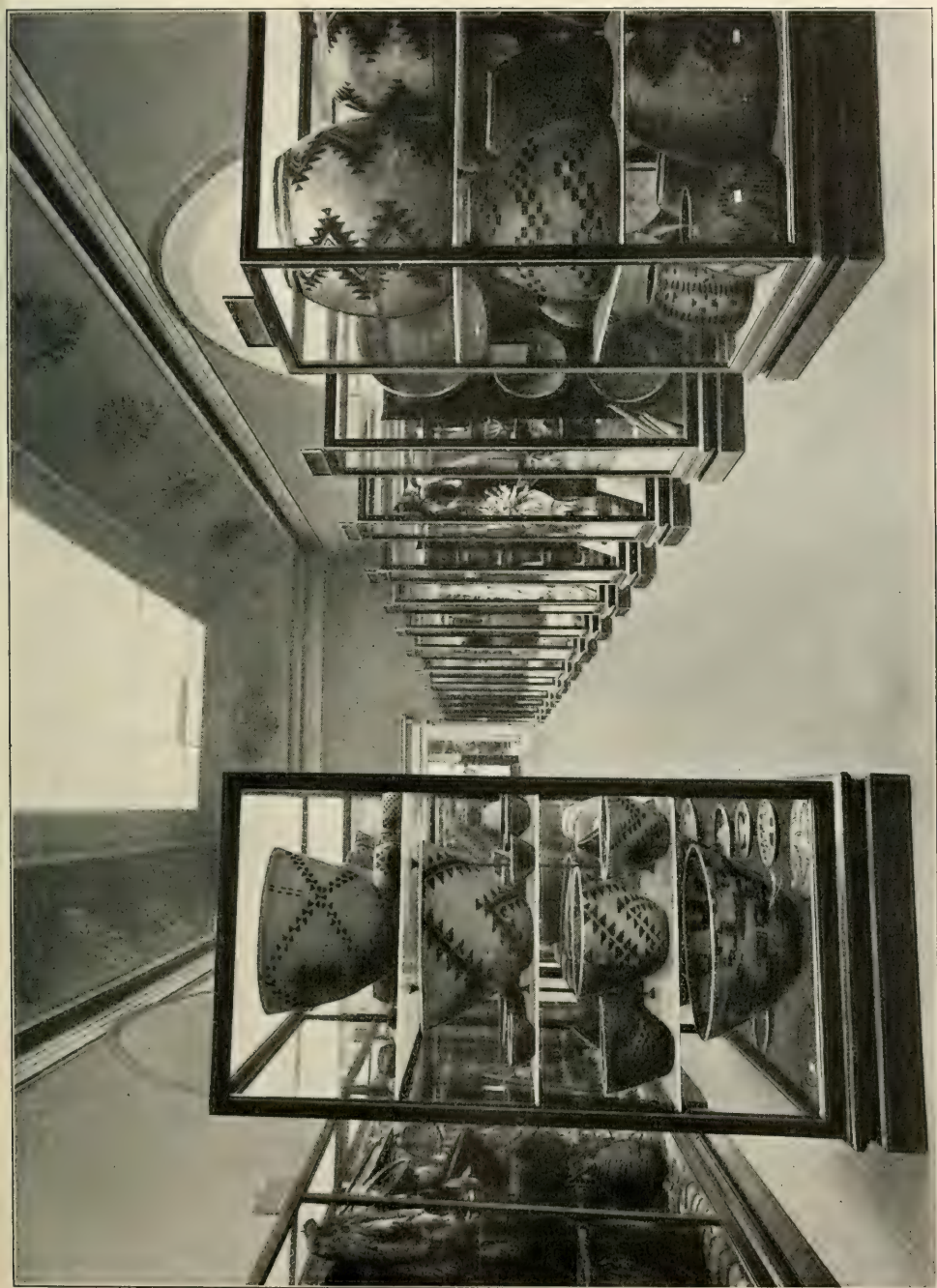
*Third.*— A copy of all publications of the Museum, when requested.

*Fourth.*— Invitations to all special exhibits, receptions, lectures, or other functions which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payment within said time, shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. Corporate Members becoming Life Members, Patrons, or Honorary Members, shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars, at any one time, shall, upon the unanimous vote of the Board of Trustees, become a Life Member. Life Members shall be exempt from all dues.





HALL 34. ETHNOLOGY OF THE INDIANS OF CALIFORNIA.





SEC. 5. Patrons shall be chosen by the Board of Trustees upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen by the Board of Trustees from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

## ARTICLE II.

### BOARD OF TRUSTEES.

SECTION 1. The Board of Trustees shall consist of fifteen members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board, and the election may be held at any regular meeting.

SEC. 2. Regular meetings of the Board shall be held on the second Monday of each month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget; when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SEC. 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

## ARTICLE III.

### OFFICERS.

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Secretary, an Assistant Secretary, and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, and the Second Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the second Monday of January of each year, and shall be called the Annual Meeting.

SEC. 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

## ARTICLE IV.

### THE TREASURER.

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation. He shall make disbursements only upon warrants drawn by the Director

and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents. But no warrant shall be issued, except in conformity with a regularly prepared voucher, giving the name of the payee and stating the occasion for the expenditure, and verified and approved as hereinafter prescribed.

SEC. 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: The President or one of the Vice Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum.

SEC. 3. The Treasurer shall give bond in such amount, and with such sureties, as shall be approved by the Board of Trustees.

SEC. 4. All vouchers executed for the payment of liabilities incurred in the administration of the Museum, shall be verified by the Auditor, and approved for payment by the Director. All vouchers executed for expenditures for the construction and maintenance of the Museum building, or buildings, shall be verified by the Auditor and approved for payment by the Chairman of the Building Committee. All vouchers executed in connection with the investments of the Corporation, or in any way having to do with the endowment funds of the Corporation, shall be verified by the Auditor and approved for payment by the Chairman of the Finance Committee.

## ARTICLE V.

### THE DIRECTOR.

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of all of the property and affairs of the Museum, and shall control the operations of the institution, subject to the authority of the Board of Trustees and the Executive Committee. The Director shall be the official medium of communication between the Board, or its committees, and the scientific staff and maintenance force.

SEC. 2. There shall be four scientific departments of the Museum — Anthropology, Botany, Geology, and Zoölogy, each under the charge of a Curator, subject to the authority of the Director. The Curators shall be appointed by the Board, upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific departments shall be appointed and removed by the Director, upon the recommendation of the Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SEC. 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At

the Annual Meeting, the Director shall make an Annual Report, reviewing the work of the Museum for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the board may direct.

## ARTICLE VI.

### AUDITOR.

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board.

## ARTICLE VII.

### COMMITTEES.

SECTION 1. There shall be four Committees, as follows: Finance, Building, Auditing and Executive.

SEC. 2. The three Committees first above named shall each consist of three members, who shall be elected by ballot by the Board at the Annual Meeting, and who shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairmen by the order in which the members are named in the respective Committee; the first member named shall be chairman; the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the chairmanship being in this order in the event of the absence or disability of the Chairman.

SEC. 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SEC. 4. Four members of the Executive Committee shall constitute a quorum, and in all other standing committees, two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum cannot be present at any meeting of any committee, then the Chairman thereof, or his successor, as herein provided, may summon any member of the Board of Trustees to act in place of the absentee.

SEC. 5. The Finance Committee shall have supervision of investing the endowment and other permanent funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to invest, sell, and reinvest, funds, subject to the approval of the Board.

SEC. 6. The Building Committee shall have supervision of the construction, reconstruction, extension, and maintenance of any kind and all buildings used for Museum purposes.

SEC. 7. The Executive Committee shall have supervision over all matters pertaining to the Museum. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget; setting forth the probable receipts from all sources for the ensuing year, and make recommen-

dations as to expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the respective Committees shall be considered as authorized to make the expenditures detailed therein. No increase in the expenditures under any items of the Budget shall be made, except by authority of the Board of Trustees, but the Executive Committee shall have authority, in cases of emergency, to expend a further total sum not exceeding two thousand dollars in any one month.

SEC. 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SEC. 9. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SEC. 10. The President shall be ex-officio a member of all Committees, and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

## ARTICLE VIII.

### NOMINATING COMMITTEE.

SECTION 1. At the November meeting of the Board, each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, and the Auditing Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting, and voted upon at the following Annual Meeting in January.

## ARTICLE IX.

### AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Board of Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.



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---

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HARLOW N. HIGINBOTHAM

CHARLES B. CORY

STANLEY McCORMICK

ROBERT F. CUMMINGS

DECEASED.

MARY D. STURGES

---

## PATRONS.

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WILLIAM I. BUCHANAN

VERNON SHAW KENNEDY

FREDERICK W. PUTNAM

FREDERICK J. V. SKIFF

WILLARD A. SMITH

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ADAMS, GEORGE E.  
ALDIS, OWEN F.  
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AYER, EDWARD E.

BARTLETT, A. C.  
BLACK, JOHN C.  
BLAIR, WATSON F.  
BLATCHFORD, ELIPHALET W.  
BUCHANAN, W. I.  
BUCKINGHAM, EBENEZER  
BURNHAM, DANIEL H.  
BUTLER, EDWARD B.

CHALMERS, W. J.  
CHATFIELD-TAYLOR, H. C.  
CLARK, JOHN M.  
CURTIS, WILLIAM E.

EASTMAN, SIDNEY C.  
ELLSWORTH, JAMES W.

FIELD, STANLEY

GAGE, LYMAN J.  
GETTY, HENRY H.  
GUNSAULUS, FRANK W.  
GUNTHER, C. F.

HEAD, FRANKLIN H.

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HUTCHINSON, CHARLES L.

JONES ARTHUR B.

KENNEDY, VERNON SHAW  
KOHLSAAT, HERMAN H.

LATHROP, BRYAN

McCAGG, E. B.  
McCORMICK, CYRUS H.  
MANIERRE, GEORGE  
MITCHELL, JOHN J.

PATTERSON, ROBERT W.  
PECK, FERD. W.  
PUTNAM, FREDERICK W.

REAM, NORMAN B.  
RYERSON, MARTIN A.

SKIFF, FREDERICK J. V.  
SMITH, BYRON L.  
SMITH, WILLARD A.  
SPRAGUE, A. A.  
STONE, MELVILLE E.

WALKER, EDWIN  
WALSH, JOHN R.

---

 DECEASED.

ARMOUR, PHILIP D.  
BAKER, WILLIAM T.  
BISSEL, GEORGE F.  
CRAWFORD, ANDREW  
DAVIS, GEORGE R.  
FITZSIMONS, CHARLES  
HALE, WILLIAM E.  
HARPER, WILLIAM R.  
HATCH, AZEL F.  
JACKSON, HUNTINGTON W.  
LEITER, L. Z.

McCLURG, A. C.  
McNALLY, ANDREW  
PEARCE, J. IRVING  
PETERSON, ANDREW  
PULLMAN, GEORGE M.  
SCHNEIDER, GEORGE  
SCOTT, JAMES W.  
STOCKTON, JOSEPH  
WALLER, R. A.  
WILLIAMS, NORMAN

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BARRETT, ROBERT L.  
BARRETT, S. E.  
BARTLETT, A. C.  
BLAIR, CHAUNCEY J.  
BLAIR, WATSON F.  
BOOTH, W. VERNON  
BURNHAM, D. H.  
BUTLER, EDWARD B.

CARTER, JAMES S.  
CARTON, L. A.  
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CRANE, R. T.

DEERING, CHARLES  
DRAKE, TRACY C.

FARWELL, WALTER  
FAY, C. N.  
FIELD, STANLEY  
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GRISCOM, CLEMENT A.  
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HILL, LOUIS W.  
HUGHITT, MARVIN  
HUTCHINSON, C. L.

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ISHAM, MRS. KATHERINE PORTER

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KING, JAMES C.

KIRK, WALTER RADCLIFFE

LAWSON, VICTOR F.

McCORMICK, MRS.  
McCORMICK, CYRUS H.  
McCORMICK, HAROLD F.  
MacVEAGH, FRANKLIN  
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MURDOCH, THOMAS

NEWELL, A. B.

ORR, ROBERT M.

PEARSONS, D. K.  
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PORTER, GEORGE F.  
PORTER, H. H.  
PORTER, H. H. Jr.

REAM, MRS. CAROLINE P.  
REAM, NORMAN B.  
REVELL, ALEX H.  
RUSSELL, EDMUND A.  
RYERSON, MRS. CARRIE H.  
RYERSON, MARTIN A.

SCHLESINGER, LEOPOLD  
SCOTT, ROBERT S.  
SINGER, C. G.  
SMITH, BYRON L.  
SMITH, ORSON  
SPRAGUE, A. A.  
SPRAGUE, OTHO S. A.  
STURGES, GEORGE

THORNE, GEORGE R.  
TREE, LAMBERT

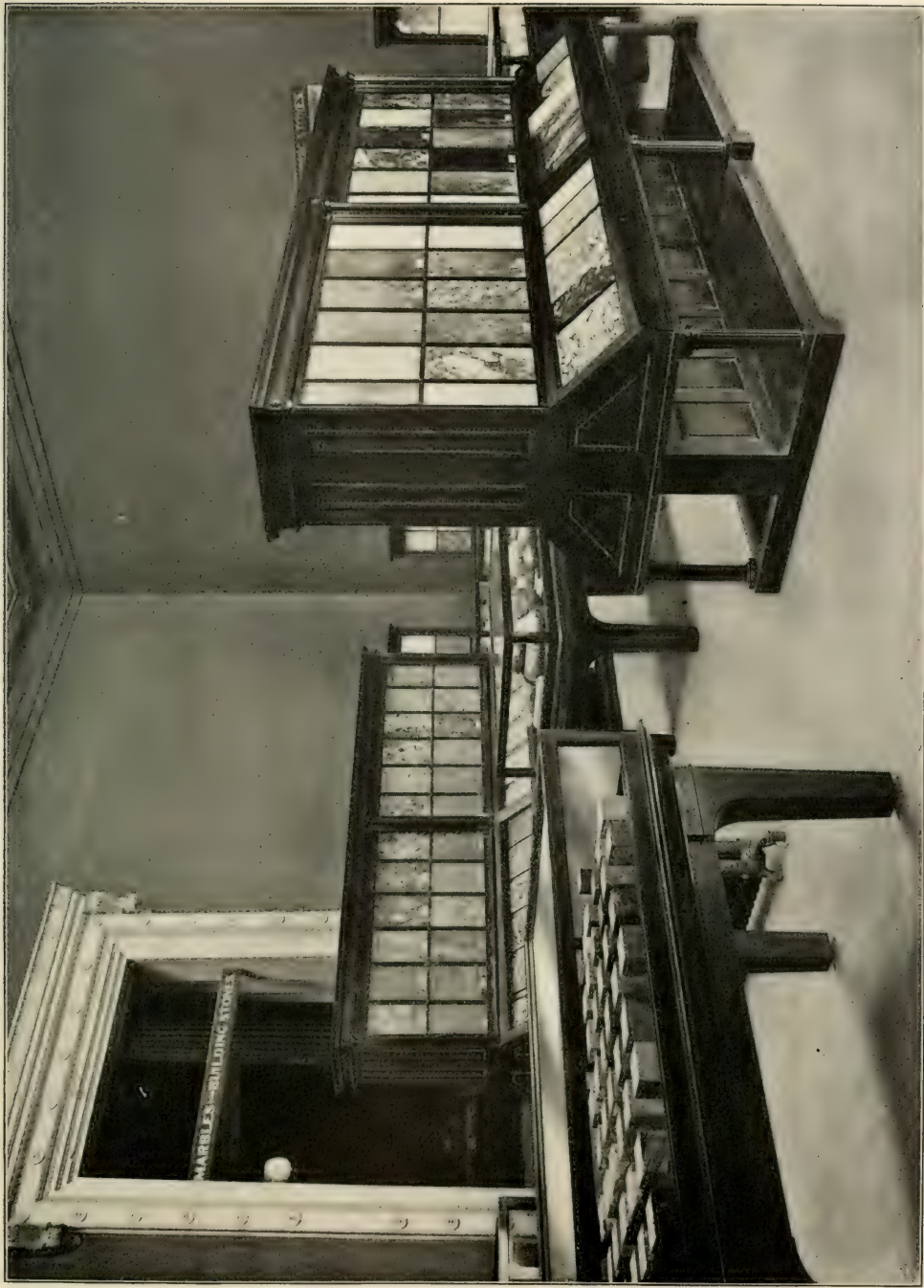
WELLS, M. D.  
WILLARD, ALONZO J.  
WOLFF, LUDWIG



## ANNUAL MEMBERS.

ADAMS, CYRUS H.  
 ADAMS, MILWARD  
 ALLERTON, ROBERT H.  
 AMBERG, WILLIAM A.  
 ARMOUR, GEORGE A.  
  
 BAILEY, EDWARD P.  
 BAKER, SAMUEL  
 BANGA, DR. HENRY  
 BARNES, CHARLES J.  
 BARRELL, JAMES  
 BECKER, A. G.  
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 BOAL, CHARLES T.  
 BOTSFORD, HENRY  
 BOUTON, C. B.  
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 BROWN, GEORGE F.  
 BROWN, WILLIAM L.  
 BURLEY, CLARENCE A.  
  
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 CUMMINGS, E. A.  
 CURTIS, D. H.

DAL, DR. JOHN W.  
 DAY, A. M.  
 DAY, CHAPIN A.  
 DEERING, JAMES  
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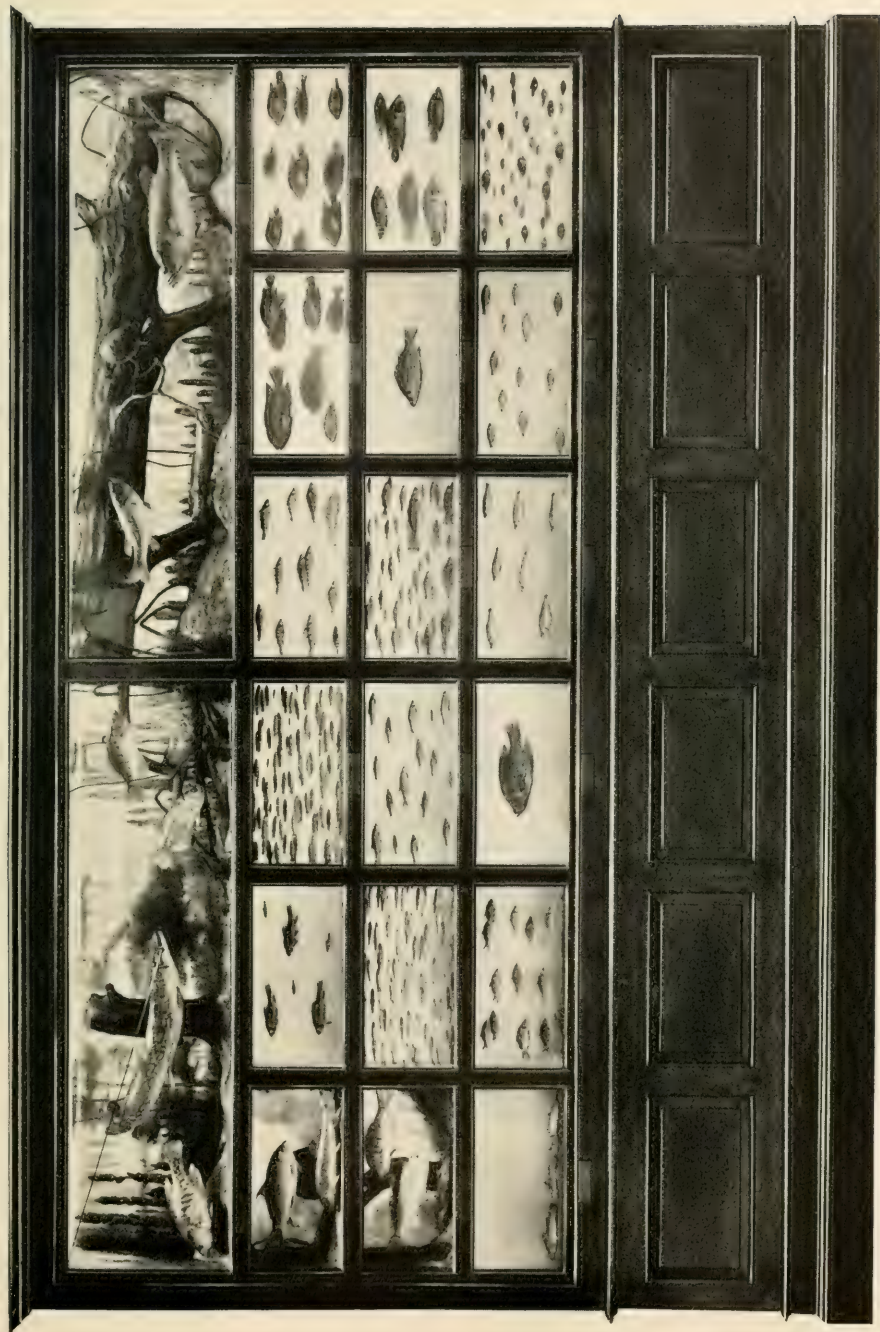


#### EXHIBITION CASE CONTAINING FISHES MOUNTED AND IN ALCOHOL.

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The two large divisions and the two smaller in the upper left-hand corner contain mounted specimens, the others alcoholic, and all, so far as possible, are given their life colors. The alcoholic specimens are fastened to glass plates set edgewise in their respective boxes. The back of each division, whether it contains mounted or alcoholic material, is a transparency to which light is furnished through the top of the case, and which, with the addition of accessories, gives to each division an aquarium effect. This is considered simply a somewhat advanced experimentation.





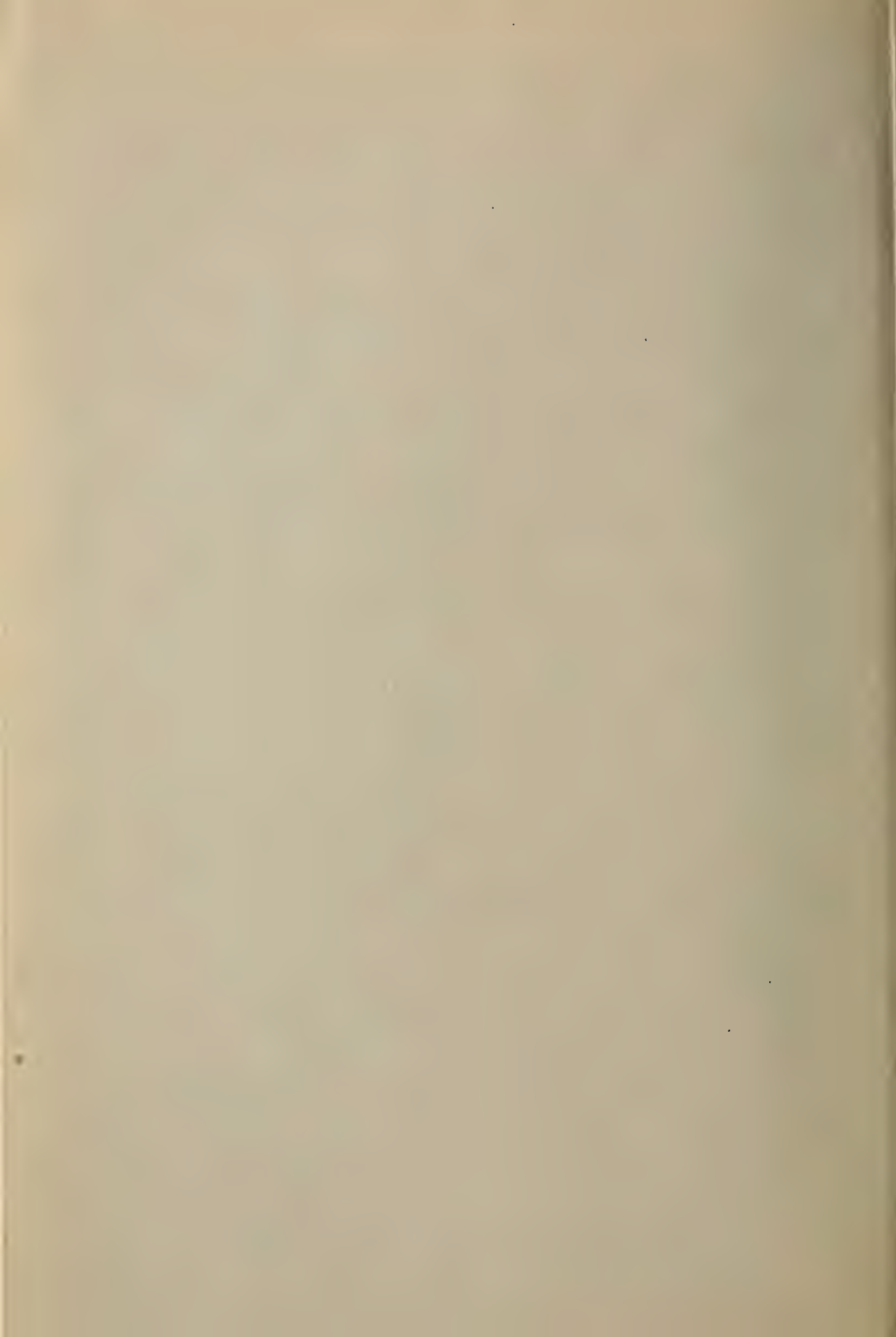
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